


Appendix H

Supplemental Groundwater Investigation Boring Logs and Well Construction Details

Client: J.H. Baxter	Location: Arlington, WA	PAGE 1 of 2
Logged By: Derek McGregor	Date Drilled: December 14, 2009	 Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2
Driller: Cascade Drilling	Borehole Diameter: 6 inch	
Drilling Method: HSA	Borehole Depth: 80 feet	
Sampling Method: Hydropunch	Well Diameter: n/a	
Casing Type: n/a	Well Depth: n/a	
Slot Size: n/a	Casing Stickup: n/a	
Gravel Pack: n/a	Water Table: ~40 feet bls	

Boring SB-66						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						~140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Cement Plug					2			SW	SAND AND GRAVEL: brown, subangular to subrounded, poorly sorted	
					4					
Bentonite Chips		moist		10,12,14	6					
					8					
		moist		16,20,22	10					
					12					
					14					
					16					
					18					
		moist		12,23,30	20					
					22					
					24					
		moist		14,20,27	26			SP	SAND: brown, medium to coarse, subangular, well sorted	
					28					
					30					
					32					
					34					
		moist		17,21,30	36			SW	SAND: brown, medium to coarse, subangular, moderate sorted; Little Gravel, subrounded	
					38					
					40					
		wet		50+	42			SP	SAND: brown, fine to medium sand, well sorted	
					44					


Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: December 14, 2009
 Borehole Diameter: 6 inch
 Borehole Depth: 80 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40 feet bls



**Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 209066.00 Task 2**

Boring SB-66 (cont.)						Elevation (feet msl) ~140		Northing (feet) n/a	Easting (feet) n/a
Boring Completion	Water Level	Moisture Content	Vapor Concentration (ppm)	Blow Counts	Depth (feet)	Sample		LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval		
Bentonite Chips								SP	SAND: brown, fine to medium sand, well sorted
		wet		10,19,24	46			SM	SAND: brown, very fine to fine; Little Silt, well sorted
					48				
					50				@ 50-51 feet Hydropunch, wait 45 minutes, collected GW-66-1
					52				
					54				
		wet		8,23,27	56			SP	SAND: brown, very fine to medium, well sorted
					58				
					60				@ 60-61 feet Hydropunch, wait 40 minutes, collected GW-66-2
					62				
					64				
		wet		7,21,27	66			SW	SAND: brown, fine to coarse; Trace Gravel, well sorted
					68				@ 68.5-69.5 feet Hydropunch, wait 30 minutes, heaving sands, could not get to 70 feet bgs, collected GW-66-3
					70				
					72				
					74				
		wet		8,16,23	76			SP	SAND: brown, fine to medium, well sorted
					78				@ 80-81 feet Hydropunch, wait 45 minutes, collected GW-66-4
					80				Boring terminated at 80 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter	Location: Arlington, WA	PAGE 1 of 2
Logged By: Derek McGregor	Date Drilled: December 15, 2009	 <p>Premier ENVIRONMENTAL SERVICES INC.</p> <p>Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2</p>
Driller: Cascade Drilling	Borehole Diameter: 6 inch	
Drilling Method: HSA	Borehole Depth: 80 feet	
Sampling Method: Hydropunch	Well Diameter: n/a	
Casing Type: n/a	Well Depth: n/a	
Slot Size: n/a	Casing Stickup: n/a	
Gravel Pack: n/a	Water Table: ~42 feet bls	

Boring SB-67					Elevation (feet msl) ~140		Northing (feet) n/a		Easting (feet) n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Cement Plug	▽	moist		9,10,12	2			SW	SAND AND GRAVEL: brown, fine to coarse; Little Gravel, subangular to subrounded, poorly sorted	
					4					
					6					
Bentonite Chips		moist		16,18,20	8					
					10					
					12					
		moist		15,20,24	14					
					16					
					18					
		moist		5,14,19	20			SP	SAND: brown, very fine to coarse, subangular, well sorted	
					22					
					24					
		moist		19,20,23	26					
					28					
					30					
		moist		15,22,22	32					
					34					
					36					
			wet		18,23,25	38			SW	SAND: brown, subangular, very fine to coarse; Trace Gravel, subangular, well sorted
40										
42							ML	SILT: brown; Little Clay; Some Sand, very fine to fine, low plasticity		
44										

Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a


Location: Arlington, WA
 Date Drilled: December 15, 2009
 Borehole Diameter: 6 inch
 Borehole Depth: 80 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~42 feet bls




Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 209066.00 Task 2

Boring SB-67 (cont.)						Elevation (feet msl) ~140		Northing (feet) n/a	Easting (feet) n/a
Boring Completion	Water Level	Moisture Content	Vapor Concentration (ppm)	Blow Counts	Depth (feet)	Sample		LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval		
Bentonite Chips		wet		10,16,20	46			ML	SILT: brown; Some Sand, very fine to fine, well sorted
					48				
					50				@ 50-51 feet Hydropunch, wait 84 minutes, only about 100 ml of water, go to 55 feet and try again, screen had fine sand and silt on it
					52				
					54				
					56				@ 55-56 feet wait 47 minutes, collected GW-67-1
					58				
		wet		5,8,7	60			SP	SAND: brown, very fine to fine, well sorted
					62				@ 62-63 feet Hydropunch, wait 45 minutes, collected GW-67-2
					64				
					66				
		wet		13,19,30	68				@ 70-71 feet Hydropunch, wait 30 minutes, collected GW-67-3
					70				
					72				
					74				
		wet		4,10,24	76			SW	GRAVEL: brown, fine to medium, subrounded; Some Sand, medium to coarse, subangular, well sorted
					78				@ 79-80 feet Hydropunch, wait 47 minutes, collected GW-66-4, collected duplicate 1 at this depth
					80				Boring terminated at 80 feet and backfilled with bentonite chips and capped with cement


Client: J.H. Baxter				Location: Arlington, WA				PAGE 1 of 2			
Logged By: Derek McGregor				Date Drilled: December 15 & 16, 2009				<div><div><div><div></div><div></div></div><div>PREMIER</div><div>ENVIRONMENTAL SERVICES, INC.</div></div><div>Project Name: J.H. Baxter - Supplemental Groundwater</div><div>Project No: 209066.00 Task 2</div></div>			
Driller: Cascade Drilling				Borehole Diameter: 6 inch							
Drilling Method: HSA				Borehole Depth: 75 feet							
Sampling Method: Hydropunch				Well Diameter: n/a							
Casing Type: n/a				Well Depth: n/a							
Slot Size: n/a				Casing Stickup: n/a				Northing (feet)			
Gravel Pack: n/a				Water Table: ~38 feet bls				Easting (feet)			
Boring SB-68						Elevation (feet msl)		Northing (feet)		Easting (feet)	
						~140		n/a		n/a	
Boring Completion		Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill							Recovery	Interval			
<div>Cement Plug</div> <div>Bentonite Chips</div>		▽	moist		12,18,22	2			SW	SAND AND GRAVEL: brown; Trace Cobbles, subangular to subrounded, moderately sorted	
						4					
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
			moist	27, 55+	22			SP	SAND: brown, fine to coarse; Trace Gravel, subangular, well sorted		
					24						
					26						
					28						
					30						
					32						
					34						
					36						
					38						
					40						
moist	15,19,20		42			SW	SAND AND GRAVEL: brown, medium to very coarse Sand, fine to medium Gravel, subangular to subrounded, moderately sorted				
			44								

Client: J.H. Baxter Logged By: Derek McGregor Driller: Cascade Drilling Drilling Method: HSA Sampling Method: Hydropunch Casing Type: n/a Slot Size: n/a Gravel Pack: n/a	Location: Arlington, WA Date Drilled: December 15 & 16, 2009 Borehole Diameter: 6 inch Borehole Depth: 75 feet Well Diameter: n/a Well Depth: n/a Casing Stickup: n/a Water Table: ~38 feet bls	PAGE 2 of 2  Premier ENVIRONMENTAL SERVICES, INC. Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2
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Boring SB-68 (cont.)					Elevation (feet msl) ~140		Northing (feet) n/a		Easting (feet) n/a	
Boring Completion		Water Level	Moisture Content	Vapor Concentration (ppm)	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill							Recovery	Interval		
Bentonite Chips						46			SW	@ 45 feet Hydropunch, wait 35 minutes, collected GW-68-1
						48				
			wet		13,17,17	50				
						52			ML	SILT: brown; Trace Clay, low plasticity; Trace Sand, very fine, soft
						54				
						56				@ 55-56 feet Hydropunch, wait 52 minutes, collected GW-68-2
						58				
			wet		50+	60				
						62			SP	SAND: brown, fine to medium, subangular, well sorted
						64				
						66				@ 65 feet Hydropunch, wait 30 minutes, collected GW-68-3
						68				
			wet		50+	70				
						72				
						74				@ 75 feet Hydropunch, wait 40 minutes, collected GW-68-4
									Boring terminated at 75 feet and backfilled with bentonite chips and capped with cement	


Client: J.H. Baxter	Location: Arlington, WA	 <p>Premier ENVIRONMENTAL SERVICES INC.</p> <p>Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2</p>
Logged By: Derek McGregor	Date Drilled: December 16 & 17, 2009	
Driller: Cascade Drilling	Borehole Diameter: 6 inch	
Drilling Method: HSA	Borehole Depth: 75 feet	
Sampling Method: Hydropunch	Well Diameter: n/a	
Casing Type: n/a	Well Depth: n/a	
Slot Size: n/a	Casing Stickup: n/a	
Gravel Pack: n/a	Water Table: ~37 feet bls	

Boring SB-69					Elevation (feet msl)		Northing (feet)		Easting (feet)	
					~140		n/a		n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Cement Plug					2			SW	SAND AND GRAVEL: brown, fine to coarse Sand; Trace Gravel, fine to coarse, subangular to subrounded, moderately sorted	
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
Bentonite Chips					22				same as above, except little Gravel	
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					
					42			SP	SAND: brown, fine to coarse, subangular, well sorted	
					44					
					46					
					48					
					50					
					52					
					54					
					56					
					58					
					60					
					62			SW	SAND: brown, fine to coarse, subangular; Some Gravel, fine to coarse, subrounded, moderately sorted	
					64					
					66					
					68					
					70					
					72					
					74					
					76					
					78					
					80					
					82			SP	SAND: brown, fine to coarse; Medium Cobble blocked end of split spoon	
					84					
					86					
					88					
					90					
					92					
					94					
					96					
					98					
					100					

Client: J.H. Baxter	Location: Arlington, WA	PAGE 2 of 2
Logged By: Derek McGregor	Date Drilled: December 16 & 17, 2009	 Premier ENVIRONMENTAL SERVICES INC.
Driller: Cascade Drilling	Borehole Diameter: 6 inch	
Drilling Method: HSA	Borehole Depth: 75 feet	
Sampling Method: Hydropunch	Well Diameter: n/a	
Casing Type: n/a	Well Depth: n/a	
Slot Size: n/a	Casing Stickup: n/a	Project Name: J.H. Baxter - Supplemental Groundwater
Gravel Pack: n/a	Water Table: ~37 feet bls	Project No: 209066.00 Task 2

Boring SB-69 (cont.)					Elevation (feet msl)	Northing (feet)	Easting (feet)		
					~140	n/a	n/a		
Boring Completion	Water Level	Moisture Content	Vapor Concentration (ppm)	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
Bentonite Chips					46				@ 45-46 feet Hydropunch, left overnight 900 minutes, collected GW-69-1
					48				
		wet		19,50+	50			SP	SAND: brown, fine to medium, subangular, well sorted
					52				
					54				
					56				@ 55-56 feet Hydropunch, wait 62 minutes, collected GW-69-2
					58				
					60			SW	GRAVEL: brown, fine to medium, subangular; Some Sand, fine to coarse, subangular, well sorted
		wet		18,21,25	62				
					64				
					66				@ 65-66 feet Hydropunch, wait 35 minutes, collected GW-69-3
					68				
					70				@70-71.5 no recovery
					72				
					74				@ 75-76 feet Hydropunch, wait 35 minutes, collected GW-69-4
									Boring terminated at 75 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter				Location: Arlington, WA				PAGE 1 of 2			
Logged By: Derek McGregor				Date Drilled: December 17, 2009				<div> Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2</div>			
Driller: Cascade Drilling				Borehole Diameter: 6 inch							
Drilling Method: HSA				Borehole Depth: 75 feet							
Sampling Method: Hydropunch				Well Diameter: n/a							
Casing Type: n/a				Well Depth: n/a							
Slot Size: n/a				Casing Stickup: n/a				Northing (feet)			
Gravel Pack: n/a				Water Table: ~38 feet bls				Easting (feet)			
Boring SB-70						Elevation (feet msl) ~140		Northing (feet) n/a		Easting (feet) n/a	
Boring Completion		Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill							Recovery	Interval			
Cement Plug		moist			7,13,14	2			SW	SAND: brown, fine to coarse, subangular; Little Gravel, fine to coarse, subrounded	
Bentonite Chips						4					
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
		22									
		moist			20,21,22	24				same as above, trace Cobbles	
						26					
						28					
						30					
						32					
						34					
						36					
						38					
						40					
						42					
		moist			14,18,19	44				tip blocked by cobbles	
						46					
						48					
						50					
						52					
						54					
						56					
						58					
						60					
						62					
		moist			35,50+	64				moderately sorted	
						66					
						68					
						70					
						72					
						74					
						76					
						78					
						80					
						82					
		moist			32,50+	84				little Cobbles, rounded	
						86					
						88					
						90					
						92					
						94					
						96					
						98					
						100					
						102					
		wet			50+	104			ML	SILT: brown; Little Clay, low plasticity, moist, stiff	
						106					
						108					
						110					

Client: J.H. Baxter	Location: Arlington, WA	PAGE 2 of 2
Logged By: Derek McGregor	Date Drilled: December 17, 2009	 Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2
Driller: Cascade Drilling	Borehole Diameter: 6 inch	
Drilling Method: HSA	Borehole Depth: 75 feet	
Sampling Method: Hydropunch	Well Diameter: n/a	
Casing Type: n/a	Well Depth: n/a	
Slot Size: n/a	Casing Stickup: n/a	
Gravel Pack: n/a	Water Table: ~38 feet bls	

Boring SB-70 (cont.)						Elevation (feet msl)	Northing (feet)	Easting (feet)
						~140	n/a	n/a
Boring Completion	Water Level	Moisture Content	Vapor Concentration (ppm)	Blow Counts	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill								
Bentonite Chips					46		ML	SILT: brown; Trace Clay, low plasticity, moist, stiff @ 45-46 feet Hydropunch, wait 35 minutes, collected GW-70-1
					48			
					50			
		wet		18,17,22	52		SP	SAND: brown, very fine to fine, subangular, well sorted
					54			
					56			@ 55-56 feet Hydropunch, wait 52 minutes, collected GW-70-2
					58			
		wet		5,7,6	60		SW	SAND: brown, fine to very coarse, subangular; Trace Gravel, fine, well sorted
					62			
					64			@ 65-66 feet Hydropunch, wait 90 minutes, collected GW-70-3
					66			
					68			
		wet		3,7,10	70		SP	SAND: brown, very fine to fine, subangular, well sorted
					72			@ 75-76 feet Hydropunch, wait 40 minutes, collected GW-70-4
					74			
								Boring terminated at 75 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: December 17 & 19, 2009
 Borehole Diameter: 6 inch
 Borehole Depth: 85 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~42 feet bls

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Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 209066.00 Task 2

Boring SB-71						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						-140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Cement Plug		moist		10,12,13	2			SW	SAND: brown, fine to coarse, subangular, moderately sorted; Trace Gravel, fine to medium, rounded	
					4					
Bentonite Chips	▽	moist		8,13,15	6				same as above, trace Cobbles	
					8					
		moist		16,18,21	10				no cobbles	
					12					
		moist		14,17,17	14					
					16					
		moist		14,20,21	18					
					20					
		moist		15,22,24	22			ML	SILT: brown; Little Clay, low plasticity, medium stiff	
					24					
		moist		17,20,23	26			SP	SAND: brown, very fine to fine, subangular, well sorted	
					28					
		very moist		13,15,21	30					
					32					
					34					
					36					
					38					
					40					
					42					
					44					

Client: J.H. Baxter Logged By: Derek McGregor Driller: Cascade Drilling Drilling Method: HSA Sampling Method: Hydropunch Casing Type: n/a Slot Size: n/a Gravel Pack: n/a	Location: Arlington, WA Date Drilled: December 17 & 19, 2009 Borehole Diameter: 6 inch Borehole Depth: 85 feet Well Diameter: n/a Well Depth: n/a Casing Stickup: n/a Water Table: ~42 feet bls	<div style="display: flex; justify-content: space-between;"> PAGE 2 of 2 </div> <p>Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2</p>
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Boring SB-71 (cont.)						Elevation (feet msl)		Northing (feet)	Easting (feet)
						~140		n/a	n/a
Boring Completion	Water Level	Moisture Content	Vapor Concentration (ppm)	Blow Counts	Depth (feet)	Sample		LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval		
Bentonite Chips		very moist		7,11,15	46			SP	SAND: brown, very fine to fine, subangular, well sorted
					48				
					50				
		wet		9,13,18	52			SW	SAND: brown, fine to very coarse; Trace Gravel, fine, subangular, well sorted
					54				
					56				@ 55-56 feet Hydropunch, first wait 30-40 minutes, second 25-45 minutes (sample twice to get enough water), collected GW-71-1
					58				
					60				
		wet		19,50+	62				
					64				
					66				@ 65-66 feet Hydropunch, wait 45 minutes, collected GW-71-2
					68				
					70				
		wet			72			SP	SAND: brown, very fine to medium, subangular, well sorted
					74				
					76				@ 75-76 feet Hydropunch, wait 45 minutes, collected GW-71-3
					78				
					80				
		wet		3,5,10	82				@ 85-86 feet Hydropunch, wait 45 minutes, collected GW-71-4
					84				
									Boring terminated at 85 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter				Location: Arlington, WA				PAGE 1 of 2			
Logged By: Derek McGregor				Date Drilled: December 22 & 23 2009				<div> Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2</div>			
Driller: Cascade Drilling				Borehole Diameter: 6 inch							
Drilling Method: HSA				Borehole Depth: 85 feet							
Sampling Method: Hydropunch				Well Diameter: n/a							
Casing Type: n/a				Well Depth: n/a							
Slot Size: n/a				Casing Stickup: n/a				Boring SB-72			
Gravel Pack: n/a				Water Table: ~42 feet bls							
				Elevation (feet msl) ~140				Northing (feet) n/a		Easting (feet) n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION		
Backfill						Recovery	Interval				
Cement Plug		moist		11,14,18	2			SW	SAND: brown, fine to coarse, subangular; Some Gravel, fine to coarse, subrounded, poorly sorted		
					4						
Bentonite Chips		moist		15,16,20	6				same as above, trace Cobbles		
					8						
		moist		8,15,19	10						
					12						
		moist		10,18,19	14				silt layer in middle		
					16						
		moist		17,21,23	18						
					20				Sand: brown, fine to coarse, subangular, soft, non plasticity; Trace Gravel, fine to medium, subrounded; Trace Cobbles, poorly sorted		
		moist		17,26,30	22						
					24						
		moist		14,18,25	26			SP	SAND: brown, fine to medium, subangular		
					28						
		moist		12,13,18	30						
					32						
		very moist			34						
					36				very fine to fine Sand		
					38						
					40			SM-ML	SAND AND SILT: brown, very fine to fine; Silt in middle of sample; Trace Clay, medium stiff, very low plasticity		
					42						
					44						

Client: J.H. Baxter				Location: Arlington, WA				PAGE 2 of 2			
Logged By: Derek McGregor				Date Drilled: December 22 & 23 2009				<div></div> <p>Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2</p>			
Driller: Cascade Drilling				Borehole Diameter: 6 inch							
Drilling Method: HSA				Borehole Depth: 85 feet							
Sampling Method: Hydropunch				Well Diameter: n/a							
Casing Type: n/a				Well Depth: n/a							
Slot Size: n/a				Casing Stickup: n/a							
Gravel Pack: n/a				Water Table: ~42 feet bls							
Boring SB-72 (cont.)						Elevation (feet msl) ~140		Northing (feet) n/a		Easting (feet) n/a	
Boring Completion		Water Level	Moisture Content	Vapor Concentration (ppm)	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill							Recovery	Interval			
<div>Bentonite Chips</div>									SM-MU		
		wet		8,13,17	46				SP	SAND: brown, very fine to fine, well sorted	
					48						
		wet		10,15,15	50						
					52						
					54						
					56					@ 55-56 feet Hydropunch, leave overnight (up to 17 hours), collected GW-72-1	
					58						
		wet		7,10,16	60				SW	SAND AND GRAVEL: brown, fine to medium, subrounded, moderately sorted	
					62						
					64						
					66					@ 65-66 feet Hydropunch, wait 35 minutes, collected GW-72-2	
					68						
		wet		50+	70				SP	SAND: brown, very fine to coarse, subangular, moderately sorted	
					72						
					74					@ 74-75 feet Hydropunch, wait 35 minutes, collected GW-72-3	
					76						
					78						
		wet		9,10,15	80						
					82						
					84					@ 85-86 feet Hydropunch, wait 30 minutes, collected GW-72-4	
									Boring terminated at 85 feet and backfilled with bentonite chips and capped with cement		


Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: December 21 & 22 2009
 Borehole Diameter: 6 inch
 Borehole Depth: 85 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~42 feet bls




Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 209066.00 Task 2

Boring SB-73						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						~140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Cement Plug		moist		10,13,21	2			SW	SAND AND GRAVEL: brown, fine to coarse, subangular to subrounded; Trace Cobbles, poorly sorted	
					4					
Bentonite Chips	▽	moist		13,15,16	6				no Cobbles, moderately sorted	
					8					
		moist		16,20,25	10				trace Gravel; subrounded, moderately sorted	
					12					
		moist		12,21,30	14				SAND: fine to very coarse; Trace Gravel, fine, well sorted	
					16					
		moist		19,20,25	18				SAND: brown, very fine to fine, moderately sorted	
					20					
		moist		10,17,21	22			SP		
					24					
		moist		15,19,23	26					
					28					
		moist		11,18,20	30					
					32					
		moist			34					
					36					
		moist			38					
					40					
		moist			42					
					44					

Client: J.H. Baxter	Location: Arlington, WA	PAGE 2 of 2
Logged By: Derek McGregor	Date Drilled: December 21 & 22 2009	 Premier ENVIRONMENTAL SERVICE, INC.
Driller: Cascade Drilling	Borehole Diameter: 6 inch	
Drilling Method: HSA	Borehole Depth: 85 feet	
Sampling Method: Hydropunch	Well Diameter: n/a	
Casing Type: n/a	Well Depth: n/a	
Slot Size: n/a	Casing Stickup: n/a	Project Name: J.H. Baxter - Supplemental Groundwater
Gravel Pack: n/a	Water Table: ~42 feet bls	Project No: 209066.00 Task 2

Boring SB-73 (cont.)						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						-140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Vapor Concentration (ppm)	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Bentonite Chips		wet		9,15,18	46			SP	SAND: brown, very fine to fine, moderately sorted	
					48					
		wet		7,11,14	50					
					52					
					54					
					56				@ 55-56 feet Hydropunch, wait 12 hours, collected GW-73-1	
					58					
		wet		50+	60				well sorted	
					62					
					64					
					66				@ 65-66 feet Hydropunch, wait 35 minutes, collected GW-73-2	
					68					
		wet		50+	70					
					72					
					74					
					76				@ 75-76 feet Hydropunch, wait 20 minutes, collected GW-73-3	
					78					
		wet		50+	80				refusal	
					82					
					84				@ 85-86 feet Hydropunch, wait 35 minutes, collected GW-73-4	
									Boring terminated at 85 feet and backfilled with bentonite chips and capped with cement	

Client: J.H. Baxter	Location: Arlington, WA	PAGE 1 of 2
Logged By: Derek McGregor	Date Drilled: December 19 & 21, 2009	 Project Name: J.H. Baxter - Supplemental Groundwater Project No: 209066.00 Task 2
Driller: Cascade Drilling	Borehole Diameter: 6 inch	
Drilling Method: HSA	Borehole Depth: 85 feet	
Sampling Method: Hydropunch	Well Diameter: n/a	
Casing Type: n/a	Well Depth: n/a	
Slot Size: n/a	Casing Stickup: n/a	
Gravel Pack: n/a	Water Table: ~42 feet bls	



Boring SB-74						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						-140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Cement Plug		moist		11,11,13	2			SW	SAND: brown, fine to coarse, subangular; Little Gravel, fine to coarse, subrounded	
					4					
Bentonite Chips		moist		13,12,11	6					
					8					
		moist		15,17,18	10				trace Cobbles, subrounded	
					12					
		moist		18,20,26	14					
					16					
		moist		21,26,29	18					
					20				SAND: fine to medium, subangular, well sorted; Trace Gravel, fine to medium, subrounded	
		moist		15,18,18	22					
					24					
		moist		11,16,19	26				same as above, except one cobble in sample	
					28					
		moist		16,20,23	30			SM-ML	SAND: @first 0.6', brown, very fine to medium, subangular, well sorted; @last 0.3' Silt: Trace Clay, medium stiff, low plasticity	
					32					
		moist			34					
					36				SILT: brown; Trace Clay, medium stiff, low plasticity	
		very moist			38					
					40			SP	SAND: brown, very fine to fine, subangular, well sorted	
					42					
					44					

Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: December 19 & 21, 2009
 Borehole Diameter: 6 inch
 Borehole Depth: 85 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~42 feet bls

PREMIER
 ENVIRONMENTAL SERVICES, INC.
 Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 209066.00 Task 2

Boring SB-74 (cont.)					Elevation (feet msl) ~140		Northing (feet) n/a		Easting (feet) n/a	
Boring Completion		Water Level	Moisture Content	Vapor Concentration (ppm)	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill							Recovery	Interval		
Bentonite Chips			very moist		10,17,20	46			SP	SAND: brown, very fine to fine, subangular, well sorted
						48				
			very moist		21,50+	50				
						52				
						54				
						56				@ 55-56 feet Hydropunch, 41 hours (duplicate sample from 14:30 PM 12-19 to 12-21), collected GW-74-1 and GW-74-5
						58				
			wet		4,10,21	60			SW	SAND AND GRAVEL: brown, subangular, very fine to medium, moderated to well sorted; Trace Gravel, fine to medium, subrounded, poorly sorted
						62				
						64				@ 65-66 feet Hydropunch, wait 100 minutes, collected GW-74-2
						66				
						68				
			wet		9,13,20	70			SP	SAND: brown, very fine to fine, subangular, well sorted
						72				
						74				@ 75-76 feet Hydropunch, wait 30 minutes, collected GW-74-3
						76				
						78				
			wet		5,9,12	80				@ 85-86 feet Hydropunch, wait 30 minutes, collected GW-74-4
						82				
						84				
									Boring terminated at 85 feet and backfilled with bentonite chips and capped with cement	

Client: J.H. Baxter Logged By: Derek McGregor Driller: Cascade Drilling Drilling Method: HSA Sampling Method: Hydropunch Casing Type: n/a Slot Size: n/a Gravel Pack: n/a		Location: Arlington, WA Date Drilled: June 29 & 30, 2010 Borehole Diameter: 6 inch Borehole Depth: 100 feet Well Diameter: n/a Well Depth: n/a Casing Stickup: n/a Water Table: n/a		PAGE 1 of 2  Premier ENVIRONMENTAL SERVICES, INC. Project Name: J.H. Baxter - Supplemental Groundwater Project No: 210129.00 Task 2						
Boring SB-75				Elevation (feet msl) ~140		Northing (feet) n/a		Easting (feet) n/a		
Boring Completion		Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Recovery						Interval			
 Bentonite Chips		moist		4,8,12	52			SW	SAND: brown, fine to medium, subangular, well sorted; Trace Gravel, fine, subrounded, saturated	
		moist		6,10,15	54					
					56				@55'-56': SAND: brown, very fine, saturated, well sorted @56.5': same as 50'-51.5'	
					58					
					60				collected GW-75-1	
					62					
					64					
		moist		6,7,8	66			SP	SAND: brown, very fine to fine, subrounded, saturated, well sorted	
					68					
					70				collected GW-75-2	
					72					
					74					
		moist		8,10,15	76				same as above	
					78					
					80				collected GW-75-3	
					82					
					84					
		moist		12,16,18	86			SW	SAND: brown, fine to medium, subangular, well sorted; Trace Gravel, fine, subrounded, saturated	
					88					
					90					
					92					
					94					

Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: June 29 & 30, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: n/a



Project Name: J.H. Baxter -
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Boring SB-75 (cont.)						Elevation (feet msl) ~140		Northing (feet) n/a	Easting (feet) n/a
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
Bentonite Chips		very moist		50+	96			SP	SAND: brown, very fine to fine, subangular, saturated, well sorted
					98				
					100				collected GW-75-4
									Boring terminated at 100 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: June 30 & July 1, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: n/a

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Project Name: J.H. Baxter -
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 Project No: 210129.00 Task 2

Boring SB-76						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						~140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
		moist		5,13,15	52			SP	See Boring Log MW-31 for soil description from 0-50 ft bgs	
					54					
		moist		10,13,14	56				SAND: brown, very fine to fine, subangular, saturated, well sorted	
					58				same as above	
					60				collected GW-76-1	
					62					
					64					
		moist			66			SW	SAND: brown, fine to medium, subangular, saturated, well sorted; last 0.4' - Trace Gravel, fine, subrounded, moderately sorted	
					68					
					70				collected GW-76-2	
					72					
					74					
		moist		12,18,20	76			SP	SAND: brown, very fine to fine, subangular, saturated, well sorted	
					78					
					80				collected GW-76-3	
					82					
					84					
		moist		6,18,25	86				same as above	
					88					
					90				collected GW-76-4	
					92					
					94					

Location: Arlington, WA
Date Drilled: June 30 & July 1, 2010
Borehole Diameter: 6 inch
Borehole Depth: 100 feet
Well Diameter: n/a
Well Depth: n/a
Casing Stickup: n/a
Water Table: n/a


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**Project Name: J.H. Baxter -
Supplemental Groundwater**
Project No: 210129.00 Task 2

Boring SB-76 (cont.)					Elevation (feet msl) ~140		Northing (feet) n/a		Easting (feet) n/a	
Boring Completion		Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill							Recovery	Interval		
<div>Bentonite Chips</div>			very moist		11,18,22	96			SW	First 0.8' - SAND: brown, fine to medium, subangular, saturated, well sorted; Last 0.3' - GRAVEL: brown, fine to medium, subrounded, saturated, moderately sorted
						98				
						100				collected GW-76-5
										Boring terminated at 100 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter Logged By: Derek McGregor Driller: Cascade Drilling Drilling Method: HSA Sampling Method: Hydropunch Casing Type: n/a Slot Size: n/a Gravel Pack: n/a	Location: Arlington, WA Date Drilled: July 7, 2010 Borehole Diameter: 6 inch Borehole Depth: 100 feet Well Diameter: n/a Well Depth: n/a Casing Stickup: n/a Water Table: n/a	<div style="text-align: center;">  <p>PREMIER ENVIRONMENTAL SERVICES, INC.</p> </div> <p> Project Name: J.H. Baxter - Supplemental Groundwater Project No: 210129.00 Task 2 </p>
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Boring SB-78					Elevation (feet msl)		Northing (feet)	Easting (feet)	
					-140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
Bentonite Chips			X		62				See Boring Log L-3 for soil description from 0-60 ft bgs collected GW-78-1
					64				
		moist		18,50+	66			SW	SAND: brown, medium to coarse, subangular, saturated, well sorted; Trace Gravel, subrounded, moderately sorted
					68				
			X		70				collected GW-78-2
					72				
					74				
		moist		10,16,21	76				SAND: brown, medium to coarse, subangular, saturated, well sorted; Last 0.3' - Gravel, very fine to fine, well sorted
					78				
			X		80				collected GW-78-3
					82				
					84				
		moist		16,20,26	86			SP	SAND: brown, fine to medium, subangular, saturated, well sorted
					88				
			X		90				collected GW-78-4
					92				
					94				
		moist		14,24,30	96			GP	GRAVEL: gray, medium to coarse, subrounded, saturated; matrix a mixture of medium to coarse Sand, Silt and Clay, moderately sorted
					98				
					100				
									Boring terminated at 100 feet and backfilled with bentonite chips and capped with cement
									bgs = below ground surface

Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 9, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: n/a



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-79						Elevation (feet msl) ~140		Northing (feet) n/a	Easting (feet) n/a
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
Bentonite Chips			X		62				collected GW-79-1
					64				
		moist		15,15,18	66			SW	SAND: brown, fine to medium, subangular, saturated, well sorted; Trace Gravel, fine, subangular
					68				
			X		70				collected GW-79-2
					72				
					74				
		moist		10,13,15	76			SP	SAND: brown, fine to medium, subrounded, saturated, well sorted
					78				
			X		80				collected GW-79-3
					82				
					84				
		moist		13,14,19	86				same as above
					88				
			X		90				collected GW-79-4
					92				
					94				
		moist		30+	96				same as above; heave in auger Some Silt/Clay on bit, likely in aquitard
					98				
					100				Boring terminated at 100 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 12, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~38 feet bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-80						Elevation (feet msl)		Northing (feet)	Easting (feet)
						-140		n/a	n/a
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval		
Bentonite Chips	▽	moist		12,18,22	2			SW	SAND AND GRAVEL: brown; Trace Cobbles, subangular to subrounded, moderately sorted
					4				
					6				
					8				
		moist		27, 55+	10				same as above, except some Cobbles
					12				
					14				
		moist		15,17,20	16				
					18				
					20				
		moist		10,11,13	22			SP	SAND: brown, fine to coarse; Trace Gravel, subangular, well sorted
					24				
		moist		15,19,24	26				
					28				
					30				
		moist		13,16,24	32				
					34				
		moist		15,19,20	36				
					38				
					40				
		wet		19,27,34	42			SW	SAND AND GRAVEL: brown, medium to very coarse Sand, fine to medium Gravel, subangular to subrounded, moderately sorted
					44				

Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a


Location: Arlington, WA
 Date Drilled: July 12, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~38 feet bgs

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Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-80 (cont.)					Elevation (feet msl)		Northing (feet)		Easting (feet)			
					~140		n/a		n/a			
Boring Completion		Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION		
Backfill							Recovery	Interval				
Bentonite Chips			wet	13,17,17		46			SW	SAND AND GRAVEL: brown, medium to very coarse Sand, fine to medium Gravel, subangular to subrounded, moderately sorted		
								50				SILT: brown; Trace Clay, low plasticity; Trace Sand, very fine, soft
								52			ML	
								54				
								56				
								58				
								60				collected GW-80-1
								62				
								64				
						66						
						68						
						70				collected GW-80-2		
						72						
						74						
						76						
						78						
						80				collected GW-80-3		
						82						
						84						
						86			SW			
				moist	7,12,12		88				SAND: brown, fine to coarse; Trace Gravel and Trace Silt, loose, wet, no odor, no sheen	

Client: J.H. Baxter	Location: Arlington, WA	 <p>PREMIER ENVIRONMENTAL SERVICES, INC.</p> <p>Project Name: J.H. Baxter - Supplemental Groundwater</p> <p>Project No: 210129.00 Task 2</p>
Logged By: Derek McGregor	Date Drilled: July 12, 2010	
Driller: Cascade Drilling	Borehole Diameter: 6 inch	
Drilling Method: HSA	Borehole Depth: 100 feet	
Sampling Method: Hydropunch	Well Diameter: n/a	
Casing Type: n/a	Well Depth: n/a	
Slot Size: n/a	Casing Stickup: n/a	
Gravel Pack: n/a	Water Table: ~38 feet bgs	

Boring SB-80 (cont.)						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						~140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Bentonite Chips	moist		<div></div> <div></div>	9,17,17	90			SW	SAND: brown, fine to coarse; Trace Gravel and Trace Silt, loose, wet, no odor, no sheen collected GW-80-4	
					92					
					94					
					96				same as above	
					98					
					100				collected GW-80-5	
									Boring terminated at 100 feet and backfilled with bentonite chips and capped with cement	

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 26, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40 feet bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2


Boring SB-81					Elevation (feet msl)		Northing (feet)		Easting (feet)	
					~140		n/a		n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Bentonite Chips					2				Grass, soil surface	
					4					
		damp		50 for 6"	6			SM	SILTY SAND: brown, fine to coarse; Trace Roots, medium dense, no odor, no sheen	
					8					
		damp		20,22,27	10				SILTY SAND: brown, fine to medium; Trace Roots, medium dense, no odor, no sheen	
					12					
					14					
		damp		22,27,28	16				SAND: brown to gray, fine to medium; Some Silt and coarse Sand, medium dense, no odor, no sheen	
					18					
		moist		50 for 6"	20			SP	SANDY with Some Silt: browish gray, fine to coarse, medium dense, no odor, no sheen, trace rocks	
					22					
					24					
		moist		50 for 6"	26				same as above	
					28					
		moist		20,20,22	30				SAND: brownish gray, fine to medium; Trace Silt, Trace Clay, well graded, medium dense, no odor, no sheen	
					32					
					34					
	moist		26,28,54	36				same as above with silt		
				38						
▽	wet		12,12,15	40				same as above		
				42						
				44						

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 26, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 85 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40 feet bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-81 (cont.)						Elevation (feet msl) ~140		Northing (feet) n/a	Easting (feet) n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
		wet		12,12,15	46			SP	SAND: brownish gray, fine to medium; Trace Silt, Trace Clay, well graded, medium dense, no odor, no sheen	
					48					
		wet		13,14,17	50			SM	SILTY SAND: brownish gray, fine sand, medium dense, no odor, no sheen	
					52					
					54					
		wet		9,9,10	56				same as above	
					58					
					60				collected GW-81-1	
					62					
					64					
		wet		10,10,12	66				same as above	
					68					
					70				collected GW-81-2	
					72					
					74					
		wet		9,9,10	76				same as above, Trace Gravel @76.5'	
					78					
					80				collected GW-81-3	
					82					
					84					
		wet		6,7,9	86				same as above	
					88					

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 26, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 85 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40 feet bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-81 (cont.)						Elevation (feet msl) -140		Northing (feet) n/a	Easting (feet) n/a
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
Bentonite Chips		wet	X	8,9,9	90				collected GW-81-4
					92				
					94			SM	SILTY SAND: brownish gray, fine sand, medium dense, no odor, no sheen
					96				
					98				
					100				collected GW-81-5
									Boring terminated at 100 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 27, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40 feet bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-82						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						~140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Bentonite Chips					2				Grass, soil surface	
					4					
		damp		32,50 for 6"	6			SM	SILTY SAND: brown, fine to medium, Trace Coarse Sand and Grass Roots, medium dense, no odor, no sheen	
					8					
		damp		33,50 for 5"	10			SW	SAND: brownish gray, fine to coarse, Trace Gravel and Silt, medium dense, no odor, no sheen	
					12					
		damp		35,50 for 4"	16				same as above	
					18					
		moist		12,12,15	20			SP-SM	SAND with SILT: grayish brown, fine to medium, medium dense, no odor, no sheen	
					22					
		moist		9,12,12	26				same as above	
					28					
		moist		10,12,14	30				same as above	
					32					
		moist		7,8,8	36			SM	SILTY SAND: brownish gray, fine to medium, loose, no odor, no sheen	
	▽				38					
		wet		6,7,8	40				same as above	
					42					
					44					

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 27, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40 feet bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-82 (cont.)					Elevation (feet msl) ~140		Northing (feet) n/a		Easting (feet) n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Bentonite Chips		wet		9,9,9	46			SM	SILTY SAND: brownish gray, fine to medium, loose, no odor, no sheen	
					48					
		wet		9,9,9	50			SP-SM	decrease Silt content	
					52					
					54					
		wet		7,7,9	56			SP-SM	SAND with SILT: gray Gravelly, fine to coarse, medium dense, no odor, no sheen	
					58					
					60				collected GW-82-1, blind duplicate GW-82-2	
					62					
					64					
		wet		6,8,8	66			SP-SM	SAND with SILT: gray, fine to medium, well sorted, loose, no odor, no sheen	
					68					
					70				collected GW-82-3	
					72					
					74					
		wet		6,7,8	76			SM	SILTY: gray, fine to medium, no odor, no sheen, soft	
					78					
					80				collected GW-82-4	
				82						
				84						
	wet		7,8,8	86				same as above		
				88						

Location: Arlington, WA
Date Drilled: July 27, 2010
Borehole Diameter: 6 inch
Borehole Depth: 100 feet
Well Diameter: n/a
Well Depth: n/a
Casing Stickup: n/a
Water Table: ~40 feet bgs



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ENVIRONMENTAL SERVICES, INC.

**Project Name: J.H. Baxter -
Supplemental Groundwater
Project No: 210129.00 Task 2**

[illegible]

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 28, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40 feet bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-83					Elevation (feet msl)		Northing (feet)		Easting (feet)	
					-140		n/a		n/a	
Boring Completion		Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill							Recovery	Interval		
Bentonite Chips						2				Grass, soil surface
						4				
		damp		50 for 4"		6		SW		SAND: brown, fine to coarse, Trace Gravelly, Trace Silt, medium dense, no odor, no sheen
						8				
		damp		50 for 5"		10				same as above
						12				
						14				
		damp		32,50 for 4"		16				same as above
						18				
		damp		34,50 for 4"		20		SP-SM		SAND with SILT: brown, fine to coarse, medium dense, no odor, no sheen
						22				
						24				
		damp		22,20,22		26				same as above
						28				
		damp		15,16,18		30		SM		SILTY SAND: brownish, gray, fine to coarse Sand, medium dense, no odor, no sheen
						32				
						34				
		moist		12,12,14		36				same as above
						38				
	▽	wet		10,10,12		40		SW		SAND: gray, fine to coarse, Trace Gravelly, Trace Silt, medium dense, no odor, no sheen
					42					
					44					

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 28, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40 feet bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-83 (cont.)						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						~140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Bentonite Chips		wet		10,10,12	46			SW	SAND: gray, fine to coarse, Trace Gravelly, Trace Silt, medium dense, no odor, no sheen	
					48					
		wet		10,12,14	50			SM	SILTY SAND: gray, fine to medium, medium dense, no odor, no sheen	
					52					
					54					
		wet		10,10,13	56				same as above	
					58					
					60				collected GW-83-1	
					62					
					64					
		wet		8,8,10	66				same as above	
					68					
					70					
					72				collected GW-83-2	
					74					
		wet		7,10,10	76				SILTY SAND: gray, fine to coarse, Trace Gravel, medium dense, no odor, no sheen	
					78					
					80					
					82				collected GW-83-3	
					84					
		wet		7,8,8	86				SILTY SAND: brownish gray, fine to coarse, medium dense, loose, soft, no odor, no sheen	
					88					

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: July 28, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40 feet bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-83 (cont.)					Elevation (feet msl) ~140		Northing (feet) n/a		Easting (feet) n/a	
Boring Completion		Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill							Recovery	Interval		
Bentonite Chips			wet		10,10,12	90 92 94 96 98 100			SM	SILTY SAND: brownish gray, fine to coarse, medium dense, loose, soft, no odor, no sheen
										Boring terminated at 100 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: October 19, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 101 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40.5 ft bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-84						Elevation (feet msl)		Northing (feet)	Easting (feet)	
						~140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
Bentonite Chips					2				Gravel surface	
				8,8,8	4			GP-SP	SANDY GRAVEL: brown, fine to coarse, medium dense, no odor, no sheen	
		damp			6					
				10,12,15	8					
		damp			10				same as above	
					12					
		damp		9,16,18	14				boulder @15'	
					16					
					18					
		damp		50 for 3"	20			SM	SILTY SAND: brown, fine to coarse, medium dense, no odor, no sheen	
					22					
		damp		12,14,19	24				@24.5' fine to medium sand	
					26					
					28					
		damp		22,50 for 6"	30				same as above	
					32					
		moist		12,12,14	34			ML	SANDY SILT: brown, fine sand, stiff, medium plasticity, dense, no odor, no sheen	
					36					
					38					
		wet		12,14,15	40			SM	SILTY SAND: brownish gray, fine to medium, medium dense, no odor, no sheen	
					42					
					44					

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: October 19, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 101 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40.5 ft bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-84 (cont.)					Elevation (feet msl)		Northing (feet)	Easting (feet)	
					-140		n/a	n/a	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
Bentonite Chips		wet		16,19,23	46			SM	SILTY SAND: brownish gray, fine to medium, medium dense, no odor, no sheen
					48				
		wet		6,15,17	50				same as above
					52				
		wet		10,23,24	54				same as above, increase fine sand with depth
		wet		10,11,15	56				same as above
					58				
					60				
		wet		50 for 6"	62				same as above
					64				
					66				silt layer @64.5' to 64.8'
		wet		15,50 for 6"	68				
					70				@70' brown, fine to coarse sand, dense, heaving sands
		wet		50 for 6"	72				
					74				
		wet		50 for 6"	76				@75' multicolored
					78				
					80				collected GW-84-1
					82				
		wet		50 for 6"	84				same as above
					86				
					88				

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: October 19, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 101 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~40.5 ft bgs



**Project Name: J.H. Baxter -
 Supplemental Groundwater**
Project No: 210129.00 Task 2

Boring SB-84 (cont.)						Elevation (feet msl)		Northing (feet)	Easting (feet)
						~140		n/a	n/a
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
Bentonite Chips	wet		X	50 for 6"	90			SM	SILTY SAND: brown, fine to coarse sand, dense, no odor, no sheen, collected GW-84-2
					92				
					94				
					96				
					98				
					100				
			X						collected GW-84-3
									Boring terminated at 101 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: October 20, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~50 ft bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-85						Elevation (feet msl)		Northing (feet)	Eastng (feet)
						-140		n/a	n/a
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval		
Bentonite Chips	damp			10, 10, 16	2			Gravel surface	
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
	damp			22, 50 for 6"	22			SANDY GRAVEL: brown, fine to coarse, medium dense, no odor, no sheen	
					24				
					26				
					28				
					30				
					32				
					34				
					36				
					38				
					40				
	damp			8, 20, 25	42			decrease Gravel content	
					44				
	damp			23, 50 for 5"					

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: October 20, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~50 ft bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-85 (cont.)						Elevation (feet msl)		Northing (feet)	Eastng (feet)
						-140		n/a	n/a
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
Bentonite Chips	▽	wet		50 for 6"	46			SM	SILTY SAND: brown, fine to medium, dense, no odor, no sheen
					48				
					50				
					52			SP	SAND: brown, fine to coarse; Some Silt, dense, no odor, no sheen
		wet		50 for 6"	54				
					56				
					58				
					60				
		wet		50 for 6"	62				boulder @60.3' ; heaving soils
					64				
					66				
					68				
		wet		50 for 6"	70				same as above
					72				
					74				
		wet		50 for 6"	76				same as above
					78				
					80				collected GW-85-1
					82				
		wet		50 for 6"	84				
					86				same as above
					88				


Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: n/a
 Slot Size: n/a
 Gravel Pack: n/a

Location: Arlington, WA
 Date Drilled: October 20, 2010
 Borehole Diameter: 6 inch
 Borehole Depth: 100 feet
 Well Diameter: n/a
 Well Depth: n/a
 Casing Stickup: n/a
 Water Table: ~50 ft bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-85 (cont.)						Elevation (feet msl) ~140		Northing (feet) n/a	Easting (feet) n/a
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
Bentonite Chips		wet	X	50 for 4"	90				collected GW-85-2
					92				
					94			SP	SAND: brown, fine to coarse; Some Silt, dense, no odor, no sheen
					96				
					98				
					100				collected GW-85-3
									Boring terminated at 100 feet and backfilled with bentonite chips and capped with cement

Client: J.H. Baxter Logged By: Derek McGregor Driller: Cascade Drilling Drilling Method: HSA Sampling Method: Hydropunch Casing Type: Sch. 40 PVC Slot Size: 20 Gravel Pack: 10/20	Location: Arlington, WA Date Drilled: June 28 & 29, 2010 Borehole Diameter: 8 inch Borehole Depth: 99 feet Well Diameter: 2 inch Well Depth: 80 feet Casing Stickup: none Water Table: ~40 ft bgs	<div style="text-align: center;">  <p>PREMIER ENVIRONMENTAL SERVICES, INC.</p> </div> <p> Project Name: J.H. Baxter - Supplemental Groundwater Project No: 210129.00 Task 2 </p>
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Well No. MW-38						Elevation (feet msl)		Northing (feet)		Easting (feet)	
						143.36		427653.6		1320491.4	
Boring Completion		Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill							Recovery	Interval			
										See Boring Log MW-34 for soil description from 0-60 ft bgs	
										collected GW-38-1	
			moist		4,13,21	62					
						64					
						66			SW	SAND: brown, fine to medium, subrounded, saturated, well sorted	
						68					
						70				collected GW-38-2	
						72					
			moist		4,19,22	74					
						76				same as above	
						78					
						80				collected GW-38-3; blind duplicate GW-38-4	
						82					
			moist		3,10,11	84					
						86				same as above, except last 0.2' was fine SAND, Trace Silt	
						88					
						90				collected GW-38-5	
						92					
			moist		4,14,24	94					
						96				SAND: brown, fine to coarse, moderately sorted, Trace Gravel, fine to medium, subrounded, saturated, poorly sorted	
						98				collected GW-38-6	
						100				Boring terminated at 99 feet and well MW-38 installed.	
										bgs = below ground surface	

* See well description detail for well completion information

Client: J.H. Baxter
Logged By: Derek McGregor
Driller: Cascade Drilling
Drilling Method: HSA
Sampling Method: Hydropunch
Casing Type: Sch. 40 PVC
Slot Size: 20
Gravel Pack: 10/20

Location: Arlington, WA
Date Drilled: July 13, 2010
Borehole Diameter: 8 inch
Borehole Depth: 99 feet
Well Diameter: 2 inch
Well Depth: 80 feet
Casing Stickup: none
Water Table: ~40 ft bgs

PAGE 1 of 1



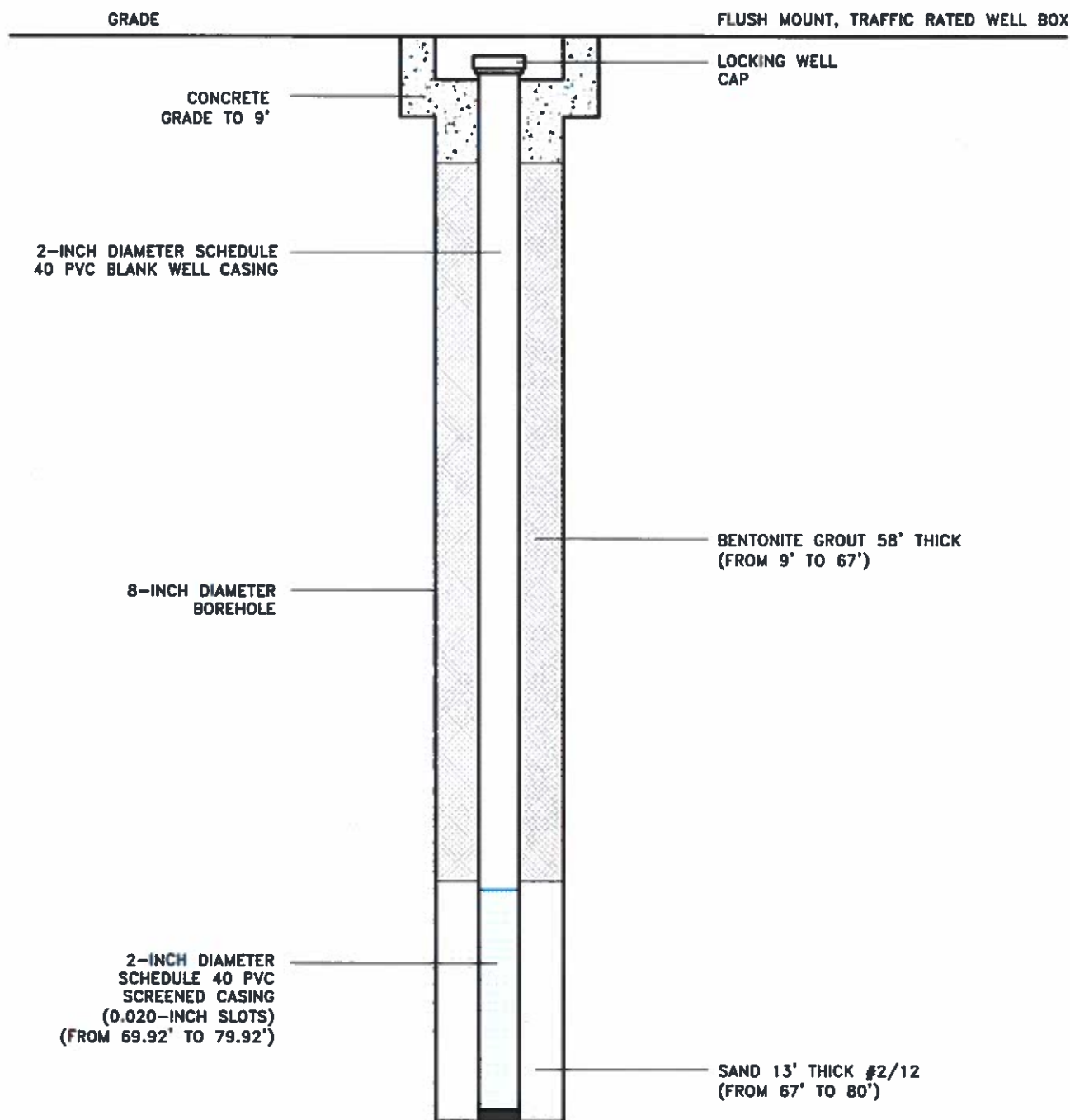
Project Name: J.H. Baxter -
Supplemental Groundwater
Project No: 210129.00 Task 2

Well No. MW-38

Elevation (feet msl)
143.36

Northing (feet)
427653.6

Easting (feet)
1320491.4



Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: Sch. 40 PVC
 Slot Size: 20
 Gravel Pack: 10/20

Location: Arlington, WA
 Date Drilled: July 14, 2010
 Borehole Diameter: 8 inch
 Borehole Depth: 81.5 feet
 Well Diameter: 2 inch
 Well Depth: 79.8 feet
 Casing Stickup: none
 Water Table: ~40 ft bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Well No. MW-39						Elevation (feet msl)		Northing (feet)	Easting (feet)
						142.73		427993.1	1320148.9
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval		
		damp			2			SW	SAND: brown, fine to medium, Trace Gravel, and Trace Silt, Organic Natural, Grass, loose, no odor, no sheen
		damp		10,12,13	6				same as above, grass roots at top
		damp		16,18,20	10				SAND: brown, fine to coarse, Trace Gravel, and Trace Silt, medium dense, moderately sorted, no odor, no sheen
		moist		9,11,13	16				same as above, well graded, loose
		moist		5,10,14	20				same as above, become brownish gray
		damp		11,15,15	26			SP-SM	SAND: brown, fine to medium, Some coarse Sand and Silt, medium dense, no odor, no sheen
		damp		7,11,14	30				same as above
		damp		10,16,22	36				same as above
		wet		10,16,22	40				same as above


* See well description detail for well completion information

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: Sch. 40 PVC
 Slot Size: 20
 Gravel Pack: 10/20

Location: Arlington, WA
 Date Drilled: July 14, 2010
 Borehole Diameter: 8 inch
 Borehole Depth: 81.5 feet
 Well Diameter: 2 inch
 Well Depth: 79.8 feet
 Casing Stickup: none
 Water Table: ~40 ft bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Well No. MW-39 (cont.)					Elevation (feet msl)		Northing (feet)		Easting (feet)	
					142.73		427993.1		1320148.9	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
		wet		14,18,20	46			SP-SM	SAND: brown, fine to medium, Some coarse Sand and Silt, medium dense, no odor, no sheen	
					48					
		wet		13,13,19	50				same as above	
					52					
					54					
		wet		13,15,19	56					
					58					
		wet		6,9,11	60			ML	SANDY SILT: brown, fine, medium dense, low plasticity, no odor, no sheen	
					62					
					64					
		wet		8,12,12	66			SP-SM	SAND with SILT: gray, fine to medium, medium dense, no odor, no sheen	
					68					
				9,13,15	70				same as above	
					72					
					74					
		wet		8,8,12	76			SM	SILTY SAND: brown, fine to medium, medium dense, no odor, no sheen; collected GW-39-1	
					78					
				17,15,16	80				Boring terminated at 81.5 feet and well MW-39 installed.	

* See well description detail for well completion information

Client: J.H. Baxter
Logged By: Derek McGregor
Driller: Cascade Drilling
Drilling Method: HSA
Sampling Method: Hydropunch
Casing Type: Sch. 40 PVC
Slot Size: 20
Gravel Pack: 10/20

Location: Arlington, WA
Date Drilled: July 14, 2010
Borehole Diameter: 8 inch
Borehole Depth: 81.5 feet
Well Diameter: 2 inch
Well Depth: 79.8 feet
Casing Stickup: none
Water Table: ~40 ft bgs

PAGE 1 of 1



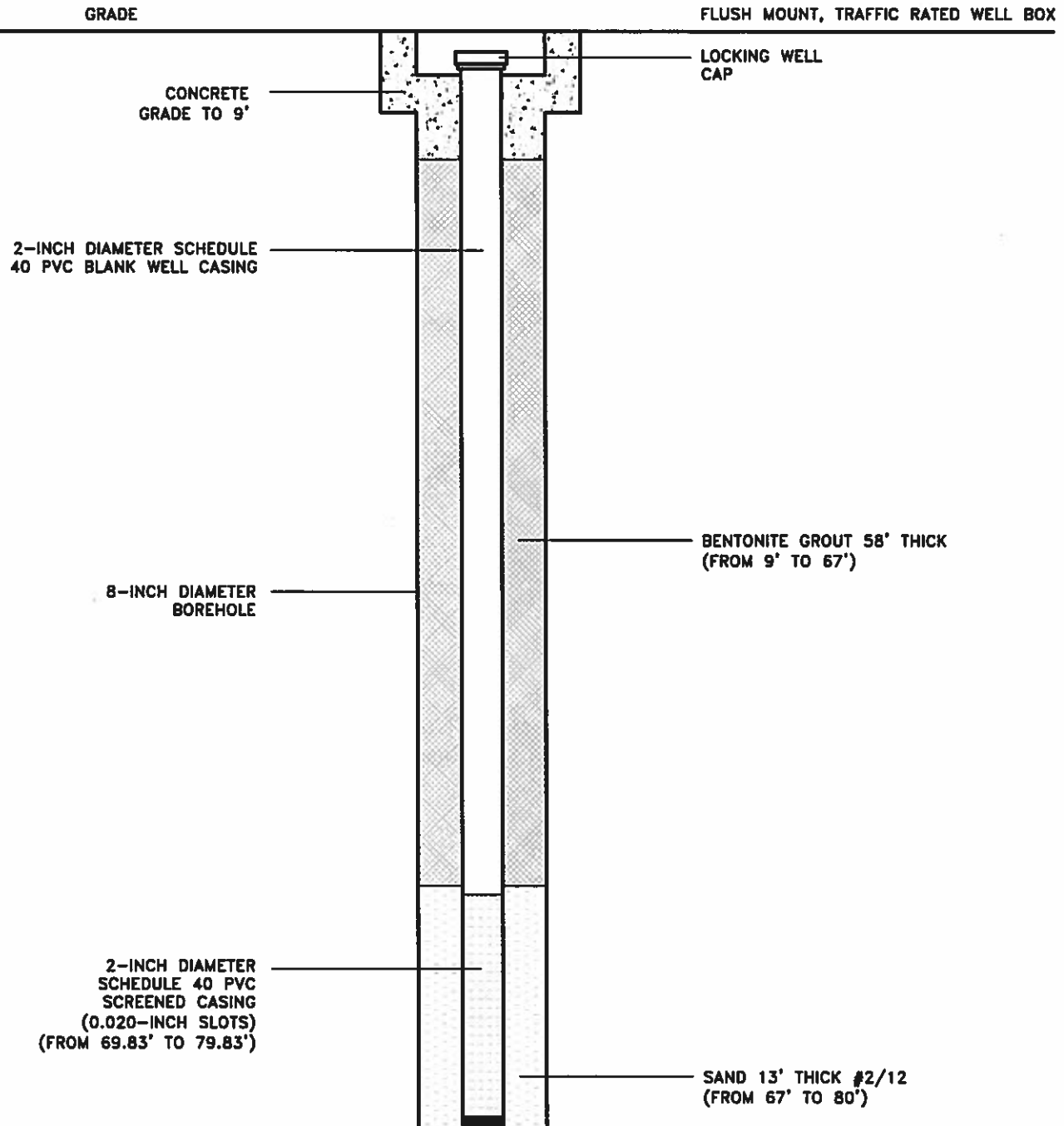
Project Name: J.H. Baxter -
Supplemental Groundwater
Project No: 210129.00 Task 2

Well No. MW-39

Elevation (feet msl)
142.73

Northing (feet)
427993.1

Easting (feet)
1320148.9



Client: J.H. Baxter
 Logged By: Derek McGregor
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: Sch. 40 PVC
 Slot Size: 20
 Gravel Pack: 10/20

Location: Arlington, WA
 Date Drilled: July 1 & 2, 2010
 Borehole Diameter: 8 inch
 Borehole Depth: 90 feet
 Well Diameter: 2 inch
 Well Depth: 79.8 feet
 Casing Stickup: none
 Water Table: ~40 bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring SB-77/MW-40						Elevation (feet msl)		Northing (feet)	Eastng (feet)
						142.56		427859.5	1320316.6
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
									See Boring Log MW-15 for soil description from 0-55 ft bgs
		moist		4,4,4	56			SP	SAND: brown, fine to medium, subangular, saturated, well sorted
					58				
					60				collected GW-77-1, blind duplicate GW 77-2
					62				
					64				
		moist		5,10,15	66			SW	SAND: brown, fine to coarse, subangular, saturated; last 0.3' - Trace Gravel, subrounded, moderately sorted
					68				
					70				collected GW-77-3
					72				
					74				
		moist		50+	76			SM	SILT: brown, Some very fine Sand, no plasticity, Trace Gravel, fine, subrounded, collected GW-77-4
					78				
					80				
					82				
					84				
		moist		10,10,10	86			SP	SAND: brown, medium to coarse, subangular, saturated, well sorted
					88				
					90				collected GW-77-5
					92				Boring terminated at 90 feet and well MW-40 installed.
					94				

* See well description detail for well completion information

Client: J.H. Baxter
Logged By: Derek McGregor
Driller: Cascade Drilling
Drilling Method: HSA
Sampling Method: Hydropunch
Casing Type: Sch. 40 PVC
Slot Size: 20
Gravel Pack: 10/20

Location: Arlington, WA
Date Drilled: July 15, 2010
Borehole Diameter: 8 inch
Borehole Depth: 90 feet
Well Diameter: 2 inch
Well Depth: 79.8 feet
Casing Stickup: none
Water Table: ~40 bgs

PAGE 1 of 1



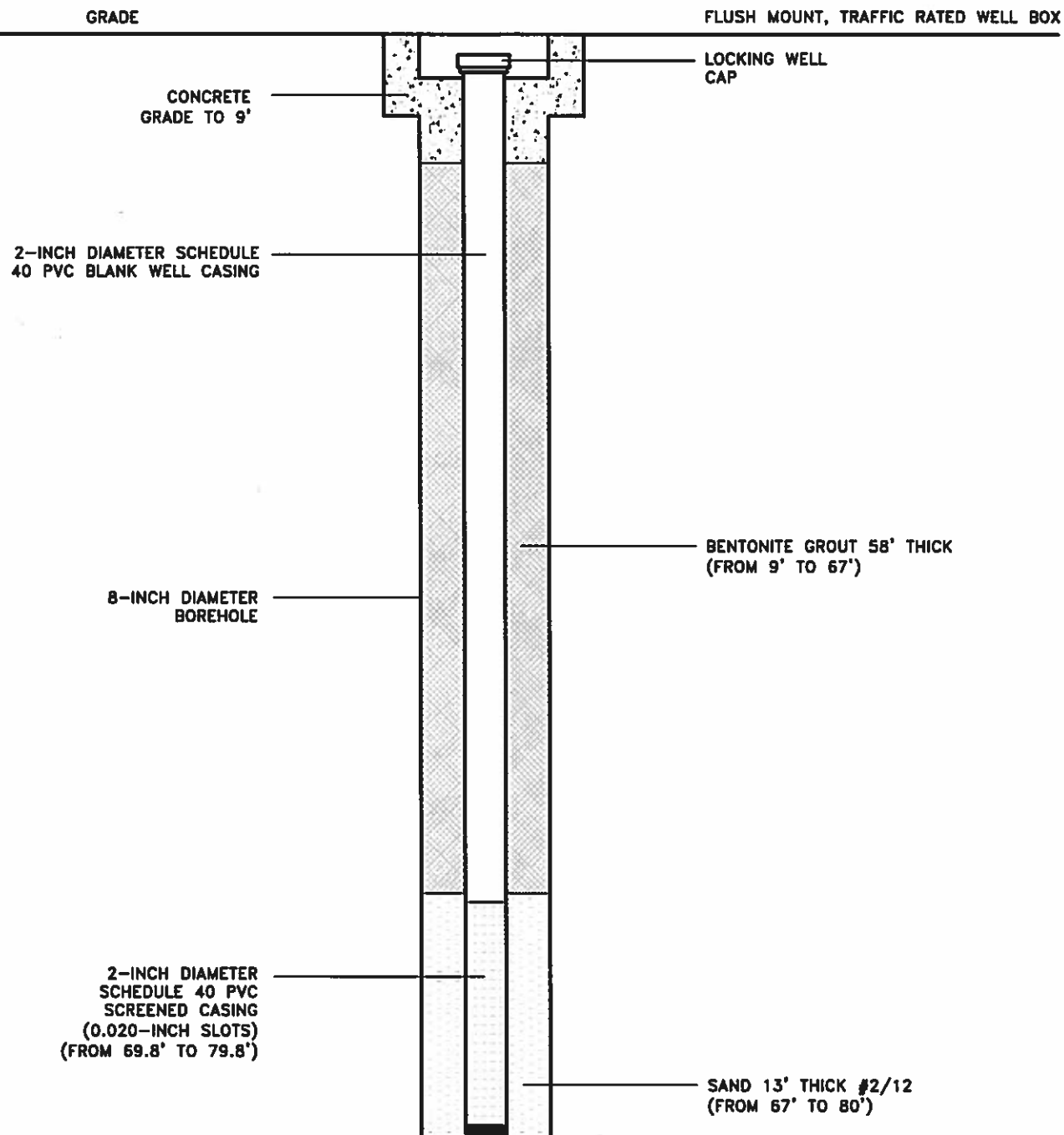
Project Name: J.H. Baxter -
Supplemental Groundwater
Project No: 210129.00 Task 2

Well No. MW-40

Elevation (feet msl)
142.56

Northing (feet)
427859.5

Easting (feet)
1320316.6



Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: Sch. 40 PVC
 Slot Size: 20
 Gravel Pack: 10/20

Location: Arlington, WA
 Date Drilled: July 16, 2010
 Borehole Diameter: 10 inch
 Borehole Depth: 81.5 feet
 Well Diameter: 4 inch
 Well Depth: 79.2 feet
 Casing Stickup: none
 Water Table: ~40 bgs




Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

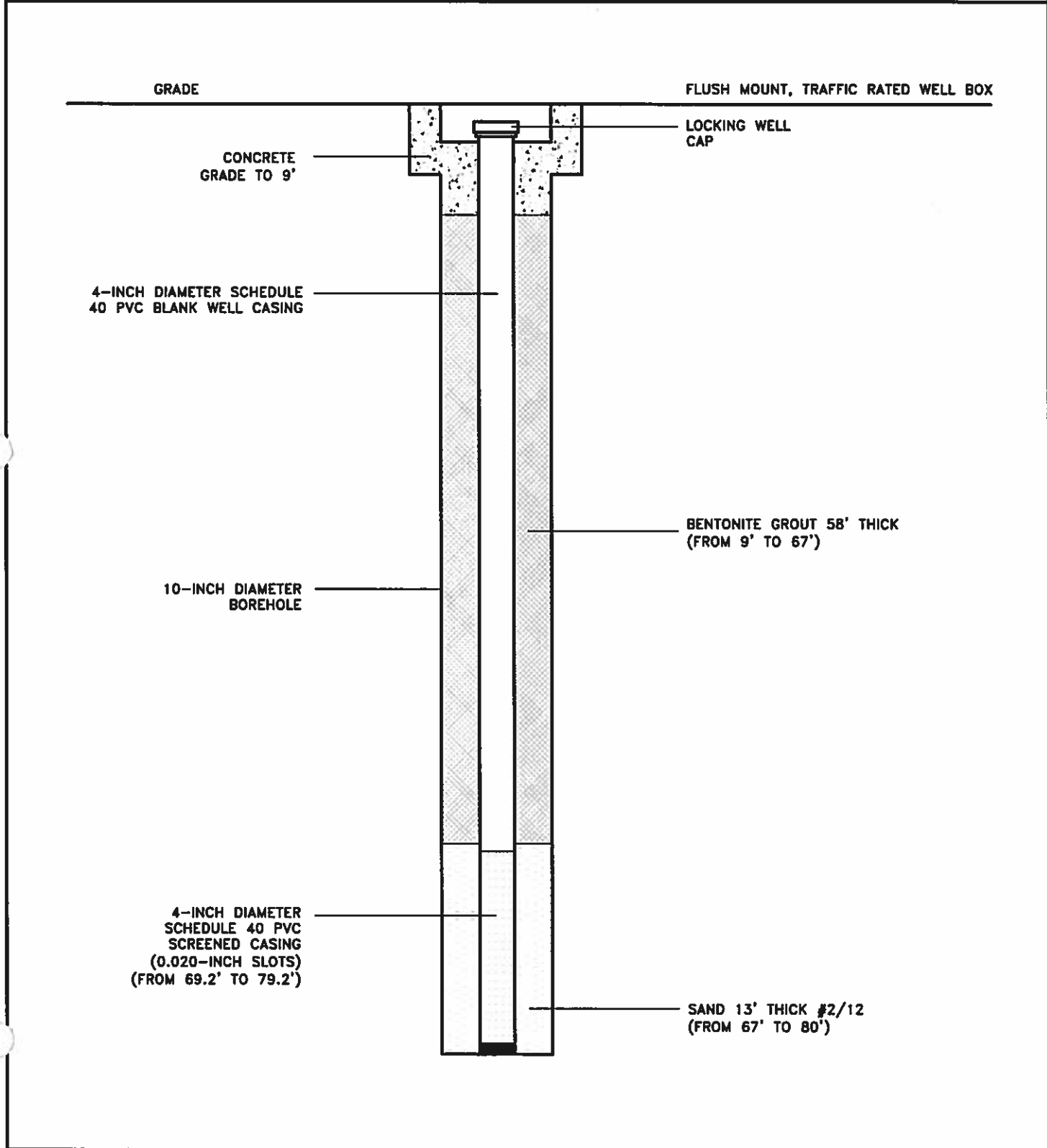
Well No. MW-41						Elevation (feet msl) 142.33		Northing (feet) 427968.1	Easting (feet) 1320255	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
		wet		7,15,17	62			SW	See Boring Log MW-37 for soil description from 0-60 ft bgs	
		moist		6,18,19	64				SAND with Silt: grayish brown, fine to coarse, medium dense, no odor, no sheen	
					66				@66' SAND with Silt: gray, fine to coarse, Gravelly, medium dense, no odor, no sheen	
				10,11,14	70				same as above	
		wet		9,9,13	76				SAND with Silt: grayish brown, fine to coarse, medium dense, no odor, no sheen	
				6,12,18	80				Boring terminated at 81.5 feet and well installed.	

bgs = below ground surface

* See well description detail for well completion information

Client: J.H. Baxter	Location: Arlington, WA	PAGE 1 of 1	
Logged By: Derek McGregor	Date Drilled: July 16, 2010	 <p>PREMIER ENVIRONMENTAL SERVICES, INC.</p> <p>Project Name: J.H. Baxter - Supplemental Groundwater</p> <p>Project No: 210129.00 Task 2</p>	
Driller: Cascade Drilling	Borehole Diameter: 10 inch		
Drilling Method: HSA	Borehole Depth: 81.5 feet		
Sampling Method: Hydropunch	Well Diameter: 4 inch		
Casing Type: Sch. 40 PVC	Well Depth: 79.2 feet		
Slot Size: 20	Casing Stickup: none		
Gravel Pack: 10/20	Water Table: ~40 bgs		

Well No. MW-41	Elevation (feet msl) 142.33	Northing (feet) 427968.1	Easting (feet) 1320255
-----------------------	--------------------------------	-----------------------------	---------------------------



Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: Sch. 40 PVC
 Slot Size: 20
 Gravel Pack: 10/20


Location: Arlington, WA
 Date Drilled: July 30, 2010
 Borehole Diameter: 8 inch
 Borehole Depth: 91.5 feet
 Well Diameter: 2 inch
 Well Depth: 89.1 feet
 Casing Stickup: none
 Water Table: ~40 bgs



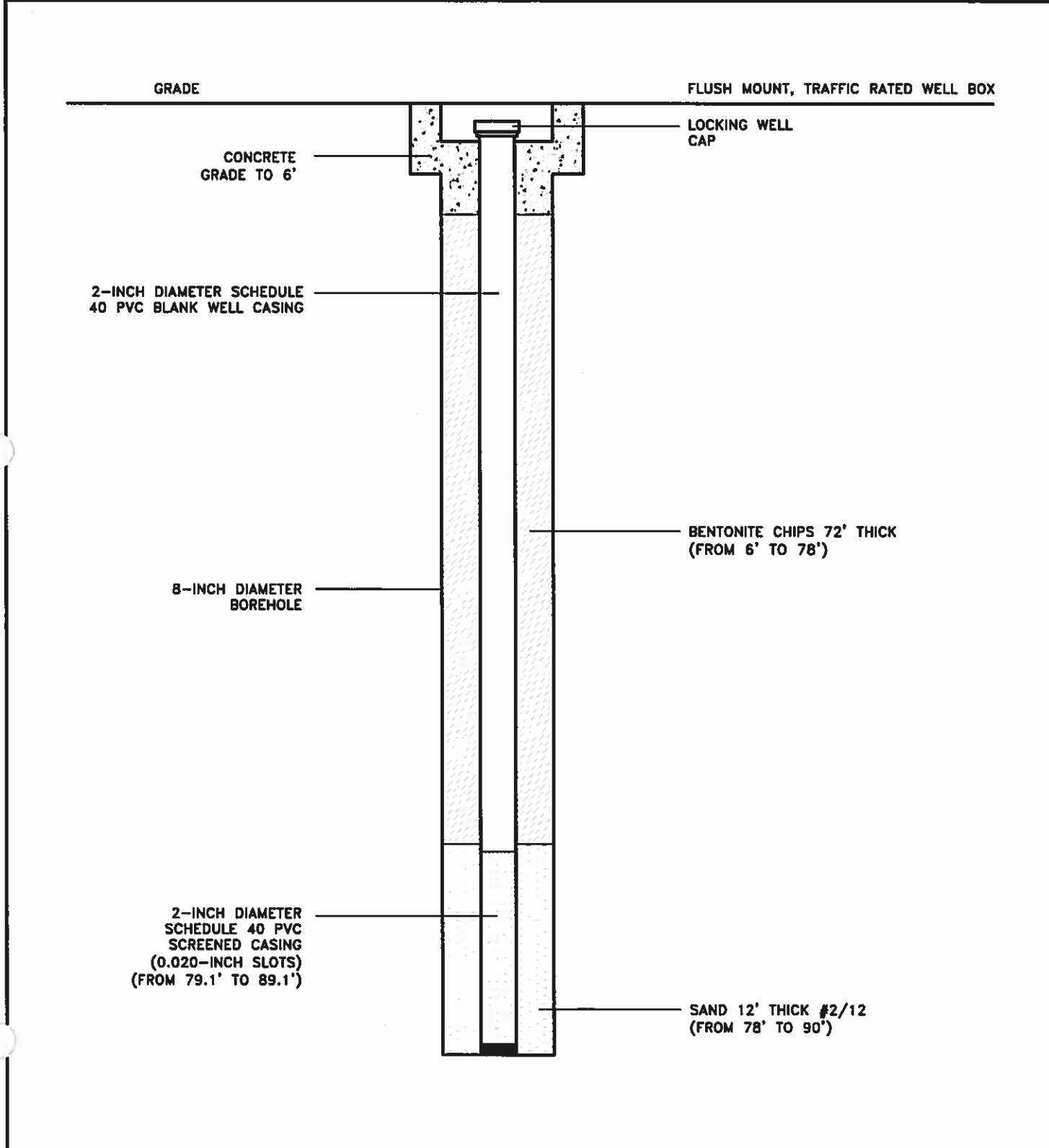
**Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2**

Well No. MW-42					Elevation (feet msl) 142.89		Northing (feet) 428319.7		Easting (feet) 1320080.9	
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill						Recovery	Interval			
		wet		10,10,12	62			SP-SM	See Boring Log MW-18 for soil description from 0-60 ft bgs	
		moist		9,9,11	66				@66' SAND with Silt: gray, fine to coarse, Gravelly, medium dense, no odor, no sheen	
		moist		8,9,12	70				same as above	
		wet		6,10,12	76				SAND with Silt: grayish brown, fine to coarse, medium dense, no odor, no sheen	
		wet		10,10,8	80				same as above	
		wet		6, 8, 8	86				same as above	
		wet		10,10,8	90				Boring terminated at 91.5 feet and well MW-42 installed.	
									bgs = below ground surface	

* See well description detail for well completion information

Client: J.H. Baxter	Location: Arlington, WA	PAGE 1 of 1	
Logged By: Derek McGregor	Date Drilled: July 30, 2010	 <p>PREMIER ENVIRONMENTAL SERVICES, INC.</p> <p>Project Name: J.H. Baxter - Supplemental Groundwater</p> <p>Project No: 210129.00 Task 2</p>	
Driller: Cascade Drilling	Borehole Diameter: 8 inch		
Drilling Method: HSA	Borehole Depth: 91.5 feet		
Sampling Method: Hydropunch	Well Diameter: 2 inch		
Casing Type: Sch. 40 PVC	Well Depth: 89.1 feet		
Slot Size: 20	Casing Stickup: none		
Gravel Pack: 10/20	Water Table: ~40 bgs		

Well No. MW-42	Elevation (feet msl)	Northing (feet)	Easting (feet)
	142.89	428319.7	1320080.9



Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: Sch. 40 PVC
 Slot Size: 20
 Gravel Pack: 10/20


Location: Arlington, WA
 Date Drilled: October 19, 2010
 Borehole Diameter: 8 inch
 Borehole Depth: 110 feet
 Well Diameter: 2 inch
 Well Depth: 100 feet
 Casing Stickup: none
 Water Table: ~44 ft bgs



Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring MW-43						Elevation (feet msl)		Northing (feet)	Easting (feet)
						141.91		428757.5	1319841.1
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
					2				Grass, soil surface
		damp		9,11,15	4			GP-SP	SANDY GRAVEL: brown, multicolored, trace Silt, medium dense, no odor, no sheen
		damp		13,13,16	10				same as above
		damp		50 for 6"	14				same as above, very dense, increase Sand
		damp		18, 50 for 6"	20				same as above
		damp		43, 50 for 6"	24			SP	@24.4' SAND: grayish brown, fine to medium; Some coarse Sand and Silt, very dense, no odor, no sheen
		damp		14,15,19	30			SP-SM	SILTY SAND: grayish brown, fine to medium, medium dense, no odor, no sheen
		damp		19,20,23	34				fine silty sand
		moist		14,15,20	40				same as above
	▽				42				
					44				

* See well description detail for well completion information

Client: J.H. Baxter				Location: Arlington, WA				PAGE 2 of 3			
Logged By: Elizabeth Poole				Date Drilled: October 19, 2010				<div> PREMIER <small>ENVIRONMENTAL SERVICES, INC.</small> Project Name: J.H. Baxter - Supplemental Groundwater Project No: 210129.00 Task 2</div>			
Driller: Cascade Drilling				Borehole Diameter: 8 inch							
Drilling Method: HSA				Borehole Depth: 110 feet							
Sampling Method: Hydropunch				Well Diameter: 2 inch							
Casing Type: Sch. 40 PVC				Well Depth: 100 feet							
Slot Size: 20				Casing Stickup: none				<div>Boring MW-43 (cont.) Elevation (feet msl) 141.91</div>			
Gravel Pack: 10/20				Water Table: ~44 ft bgs							
								Northing (feet) 428757.5		Easting (feet) 1319841.1	
Boring Completion		Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION	
Backfill							Recovery	Interval			
		wet			10,16,16	46			SM	SILTY SAND: grayish brown, fine sand, medium dense, no odor, no sheen (coarse sand from 44' to 44.5')	
						48					
		wet			11,15,16	50				SILTY CLAY @49.5' to 49.8'	
						52					
		wet			15,17,18	54			SM-SP	SILTY SAND: grayish, multicolored, fine to medium, medium dense, no odor, no sheen, lot of heave	
		wet			18,50 for 6"	56					
						58					
						60					
		wet			50 for 6"	62			GP-SP	SANDY GRAVEL: multicolored, coarse Sand, trace Silt, very dense, no odor, no sheen	
						64					
		wet			50 for 6"	66				medium to coarse Sand, loose	
						68					
						70					
		wet			50 for 6"	72				same as above	
						74					
						76					
						78					
						80				collected GW-43-1	
		wet			50 for 6"	82			SM	SILTY SAND: grayish, multicolored, fine to medium, loose, no odor, no sheen, heave	
						84					
						86					
						88					

* See well description detail for well completion information

Client: J.H. Baxter
 Logged By: Elizabeth Poole
 Driller: Cascade Drilling
 Drilling Method: HSA
 Sampling Method: Hydropunch
 Casing Type: Sch. 40 PVC
 Slot Size: 20
 Gravel Pack: 10/20


Location: Arlington, WA
 Date Drilled: October 19, 2010
 Borehole Diameter: 8 inch
 Borehole Depth: 110 feet
 Well Diameter: 2 inch
 Well Depth: 100 feet
 Casing Stickup: none
 Water Table: ~44 ft bgs



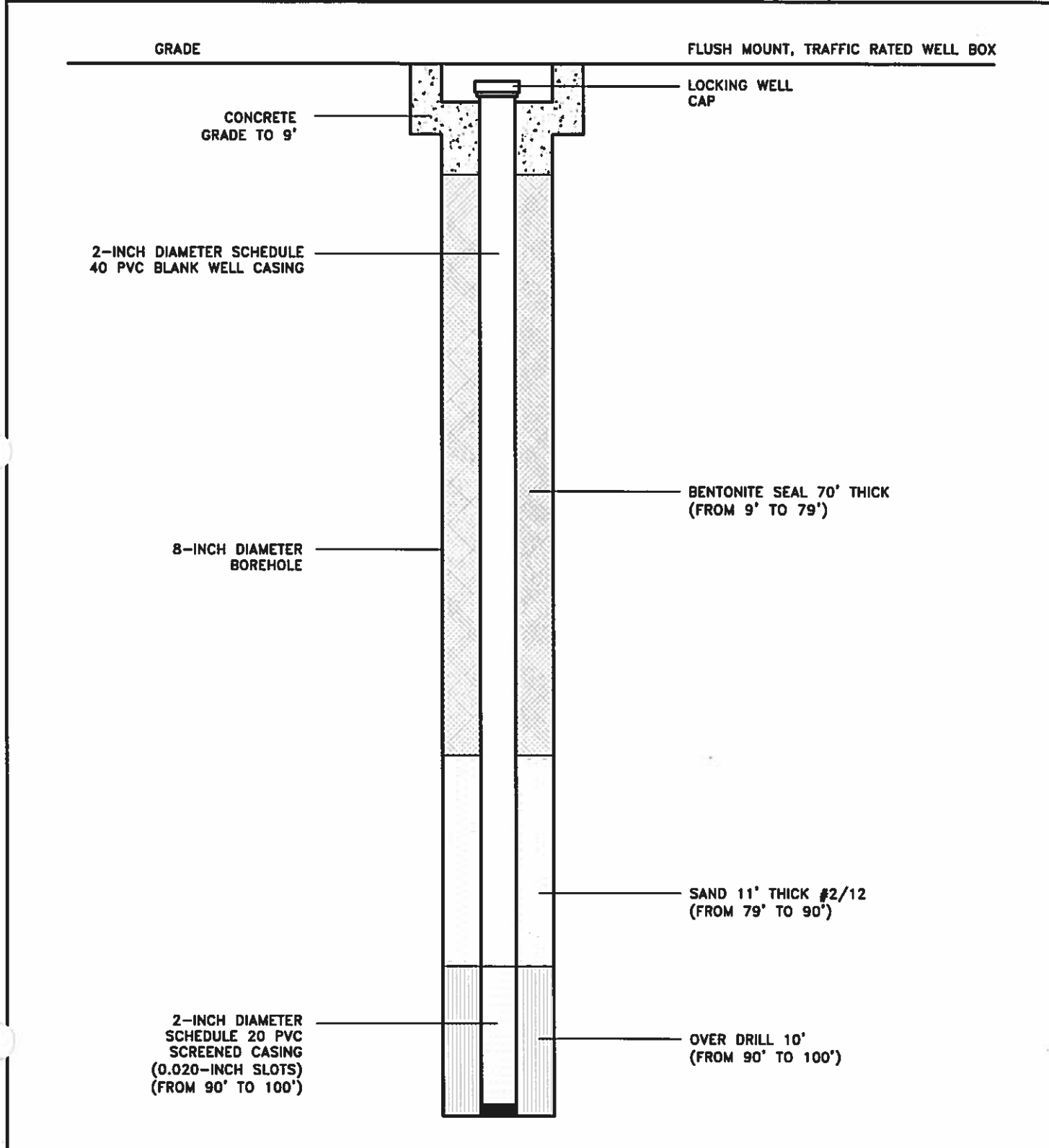
Project Name: J.H. Baxter -
 Supplemental Groundwater
 Project No: 210129.00 Task 2

Boring MW-43 (cont.)					Elevation (feet msl)	Northing (feet)	Easting (feet)		
					141.91	428757.5	1319841.1		
Boring Completion	Water Level	Moisture Content	Groundwater Sample Interval	Blow Counts	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill						Recovery	Interval		
			<div><div></div></div>		90				collected GW-43-2
					92				
					94				
		wet		50 for 6"	96	<div><div></div></div>	<div><div></div></div>	SM	SILTY SAND: grayish brown, fine sand, loose, no odor, no sheen
			<div><div></div></div>		98				
			<div><div></div></div>		100				collected GW-43-3
		wet		50 for 6"	102	<div><div></div></div>	<div><div></div></div>		same as above
					104				
					106				
					108				
			<div><div></div></div>		110				collected GW-43-4
									Boring terminated at 110 feet and well MW-43 installed.

* See well description detail for well completion information

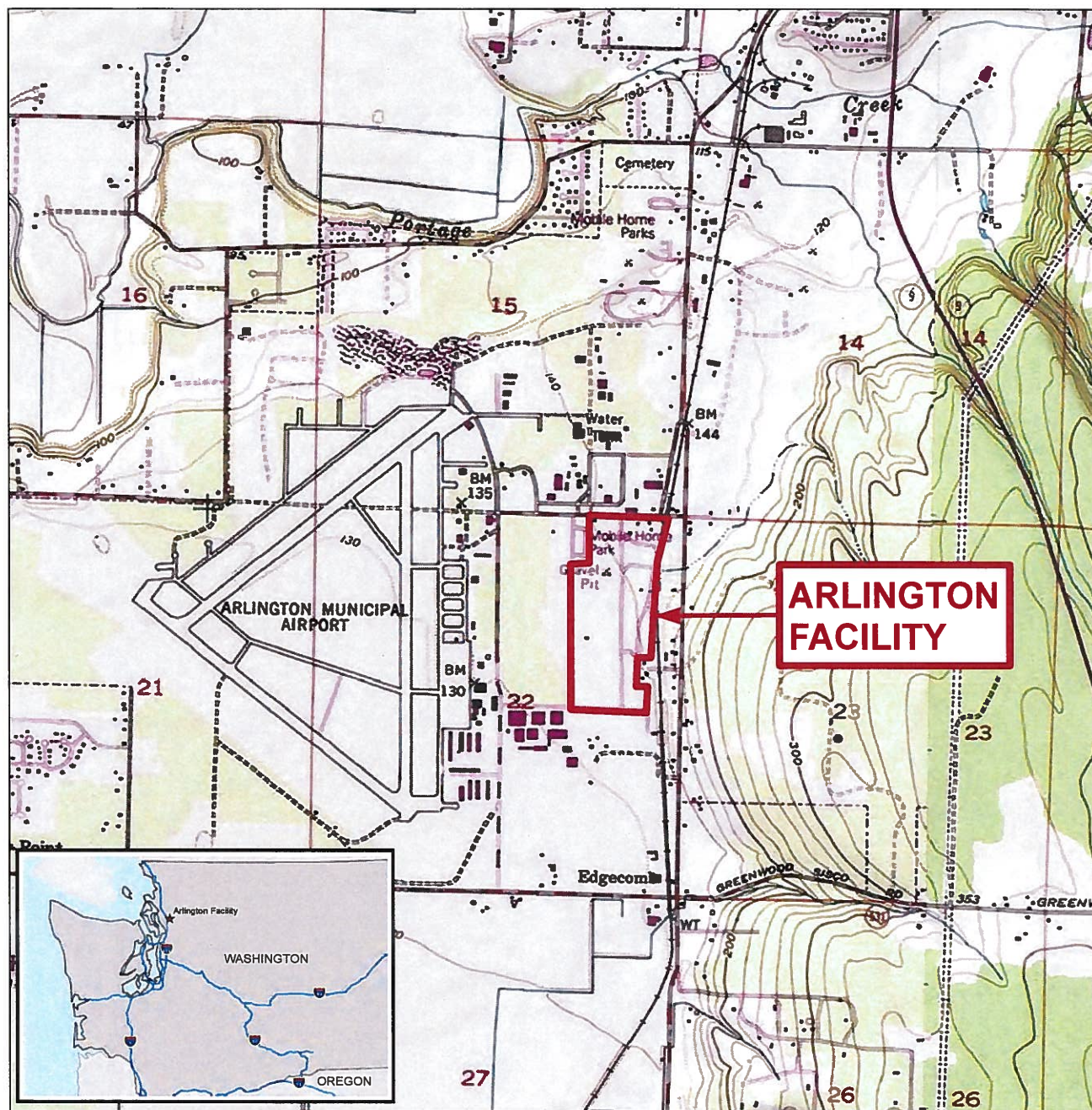
Client: J.H. Baxter	Location: Arlington, WA	PAGE 1 of 1	
Logged By: Elizabeth Poole	Date Drilled: October 19, 2010	 <p>PREMIER ENVIRONMENTAL SERVICES, INC.</p> <p>Project Name: J.H. Baxter - Supplemental Groundwater</p> <p>Project No: 210129.00 Task 2</p>	
Driller: Cascade Drilling	Borehole Diameter: 8 inch		
Drilling Method: HSA	Borehole Depth: 110 feet		
Sampling Method: Hydropunch	Well Diameter: 2 inch		
Casing Type: Sch. 40 PVC	Well Depth: 100 feet		
Slot Size: 20	Casing Stickup: none		
Gravel Pack: 10/20	Water Table: ~44 ft bgs		

Well No. MW-43	Elevation (feet msl)	Northing (feet)	Easting (feet)
	141.91	428757.5	1319841.1



Appendix I

Source Area Investigation and Chemical Oxidation Bench Study Figures



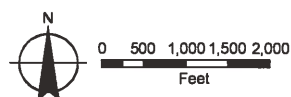
APPENDIX I-1

Site Vicinity Map

Former J.H. Baxter Wood Treating Facility
Arlington, Washington

MAP NOTES:

Data Sources: Geomatrix, Appendix C, Stand-Alone Data Document (2014), December 2014

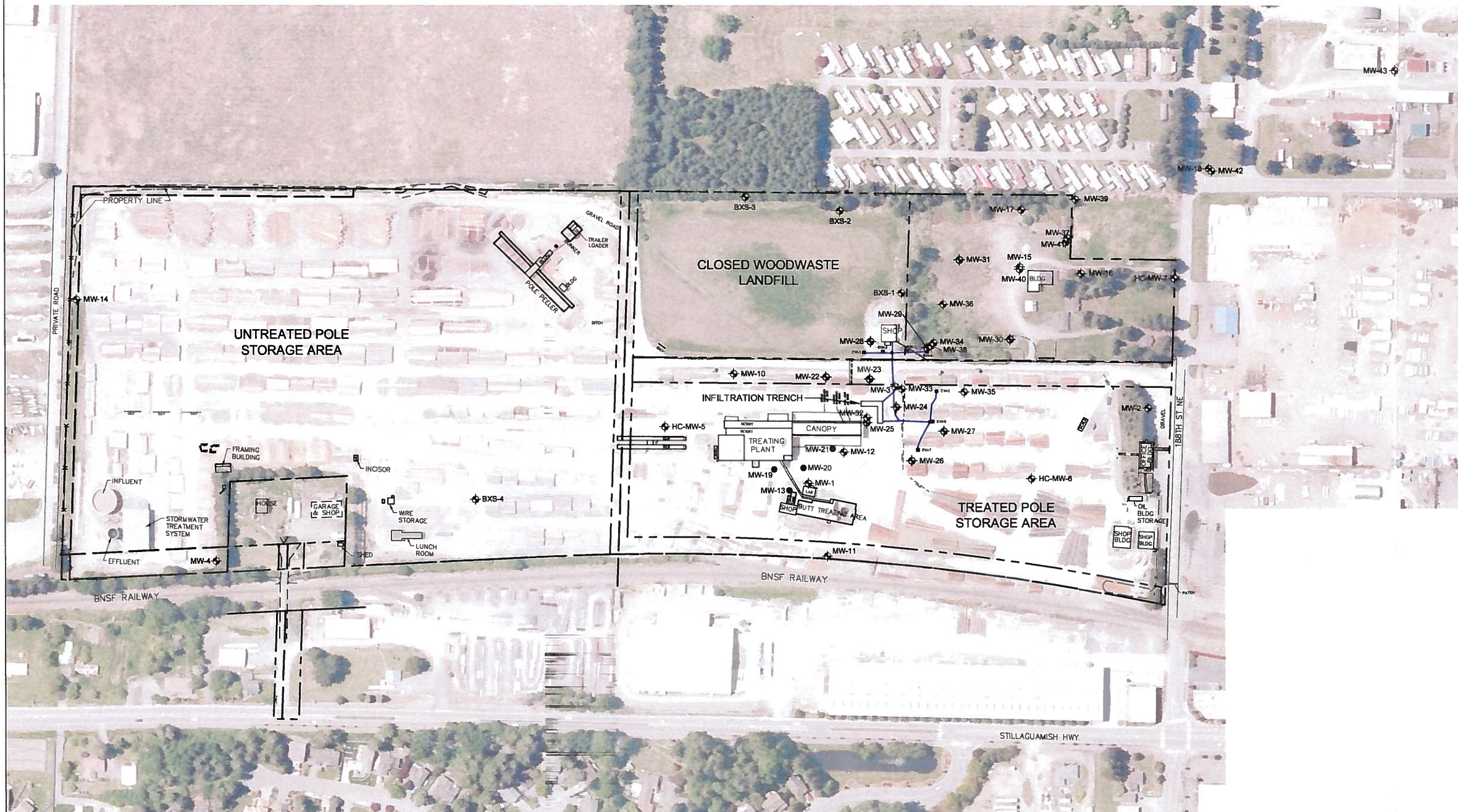


APPENDIX I-2

Site Plan and Groundwater Monitoring Network Former J.H. Baxter Wood Treating Facility Arlington, Washington

LEGEND

- MW-11 Monitoring Well (Sampled September 2013)
- Extraction Well
- Recovery Well
- - - Approximate Site Boundary
- Layout of Groundwater Recirculation Piping



0 110 220 330
Feet

MAP NOTES:
Data Sources: Geomatrix, Appendix C, Stand-Alone Data Document (2014), December 2014



APPENDIX I-3

Areas of Concern

Former J.H. Baxter Wood Treating Facility
Arlington, Washington

LEGEND

- ◆ Existing Monitoring Well
- Existing LNAPL Recovery Well
- EW-1 ■ Extration Well and Vault Identifying Number
- Layout of Groundwater Recirculation Piping
- - - Approximate Operational Area Boundary Based on Current and Former Use
- - - Approximate Baxter Property Boundary
- - - Drainage Ditch
- Areas with Soils Above Proposed Cleanup Levels
- Approximate Area of Residual LNAPL in Soil
- Approximate Extent of PCP Plume in Groundwater

ABBREVIATIONS:

COCs = Constituents of Concern
PCP = PentaChlorophenol
LNAPL = Light Nonaqueous-Phase Liquid

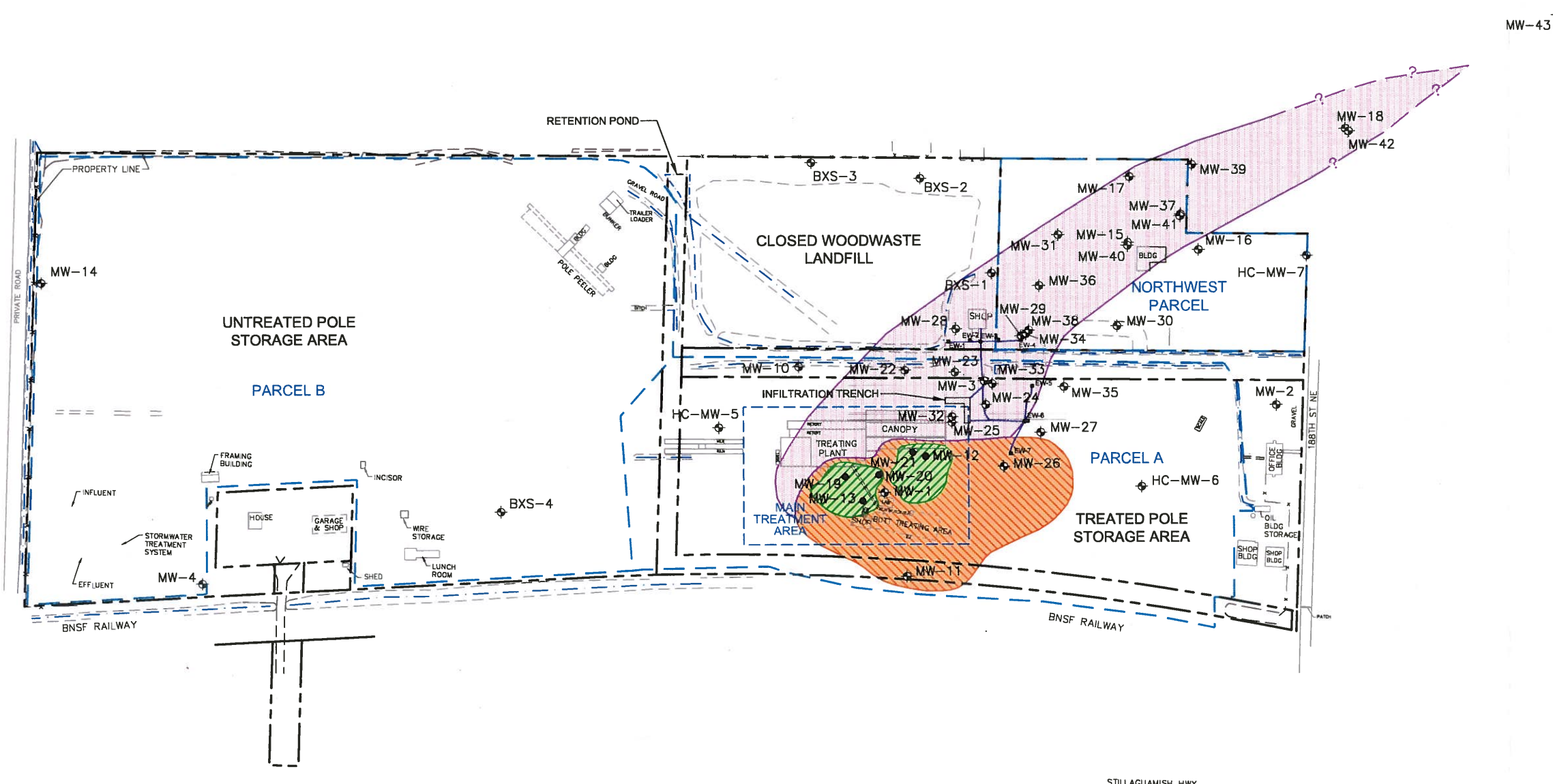
NOTE:

Soils above proposed cleanup levels include surface and subsurface soils.



MAP NOTES:

Data Sources: Geomatrix, Appendix C, Stand-Alone Data Document (2014), December 2014



APPENDIX I-4

Borehole Soil Sampling Locations and Results - September 2013

Former J.H. Baxter Wood Treating Facility
Arlington, Washington

LEGEND

- ▲ Borehole (Completed September 2013)
- ⊕ Monitoring Well (Sampled September 2013)
Additional Well Located Off-Map Include
MW-11, MW-36 and MW-41. See Figure 2.
- Soil Boring
- ⊕ Monitoring Well
- Extraction Well
- ⊙ Recovery Well
- ~ NAPL Thickness Contour (approximate, ft)

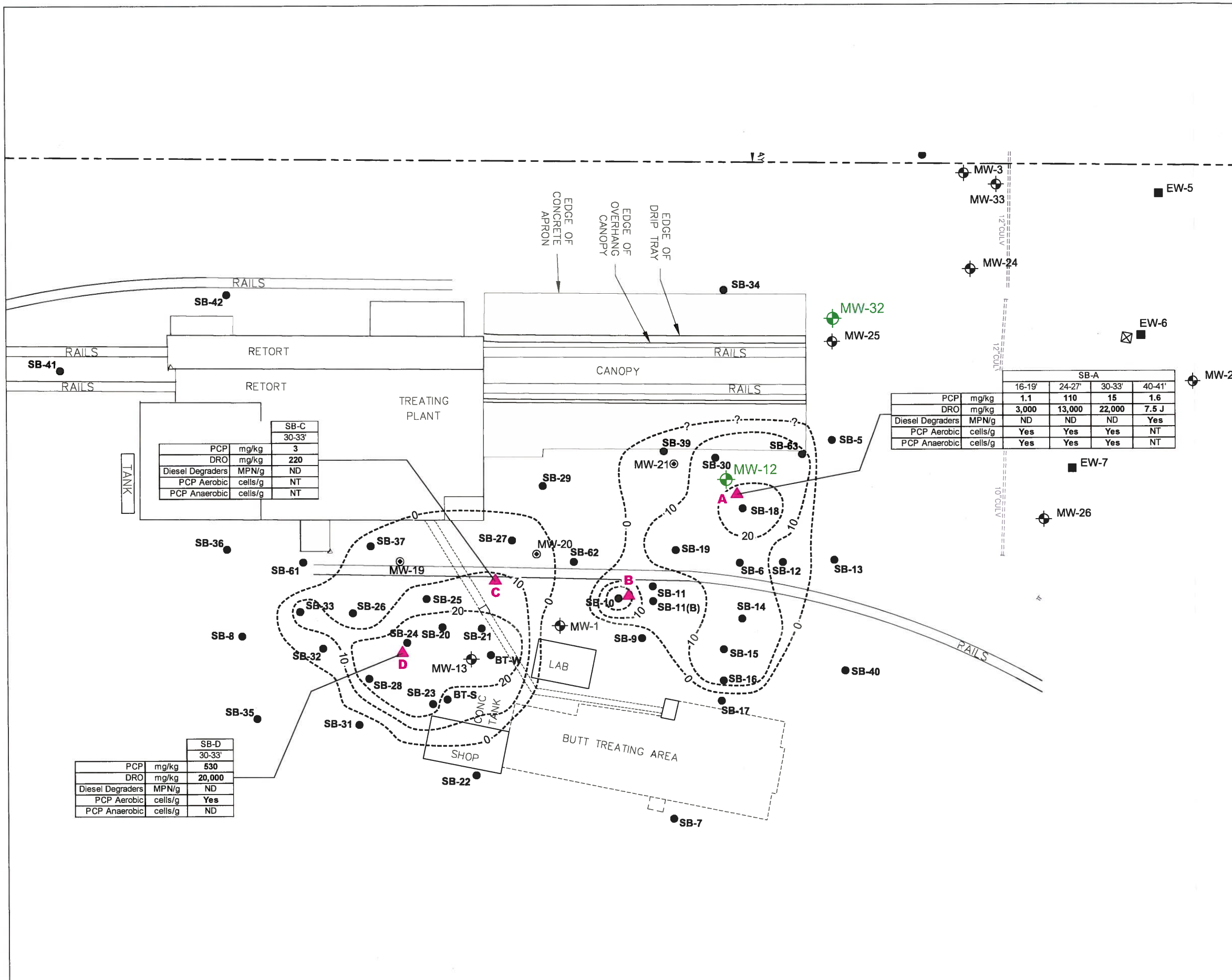
ABBREVIATIONS:

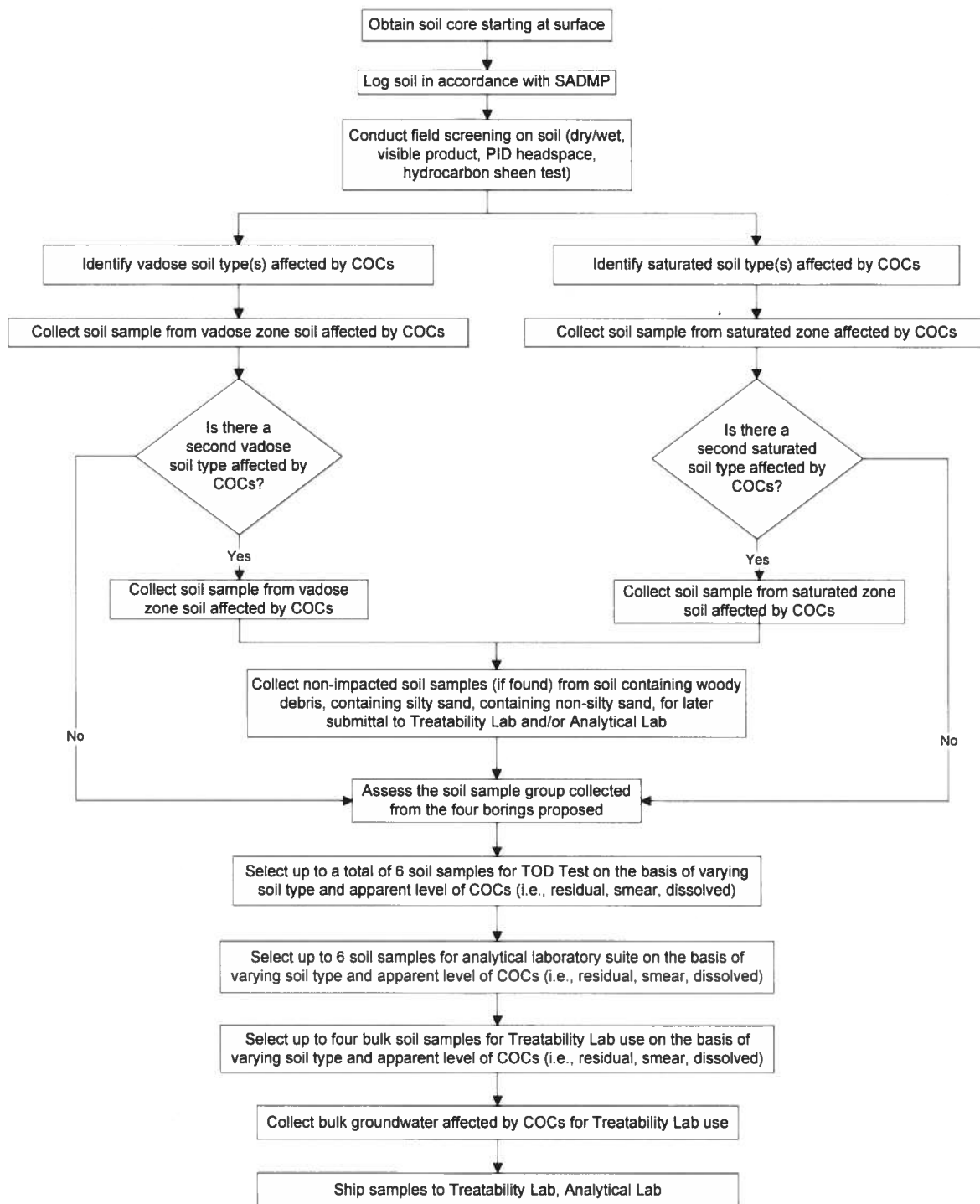
- ND: Not Detected
- NT: Not Tested
- PCP: Pentachlorophenol
- DRO: Diesel Range Organics
- Diesel Degradors: Hydrocarbon Degrading Bacteria
- PCP Aerobic: PCP Resulator Gene
- PCP Anaerobic: Desulfotobacterium SPP
- MPN/g: Most Probable Number of Cells per Gram
- cells/g: Cells per Gram



MAP NOTES:

Data Sources: Geomatrix, Appendix C, Stand-Alone Data Document (2014), December 2014





APPENDIX I-5

Soil Sampling Guide

Former J.H. Baxter Wood Treating Facility
Arlington, Washington

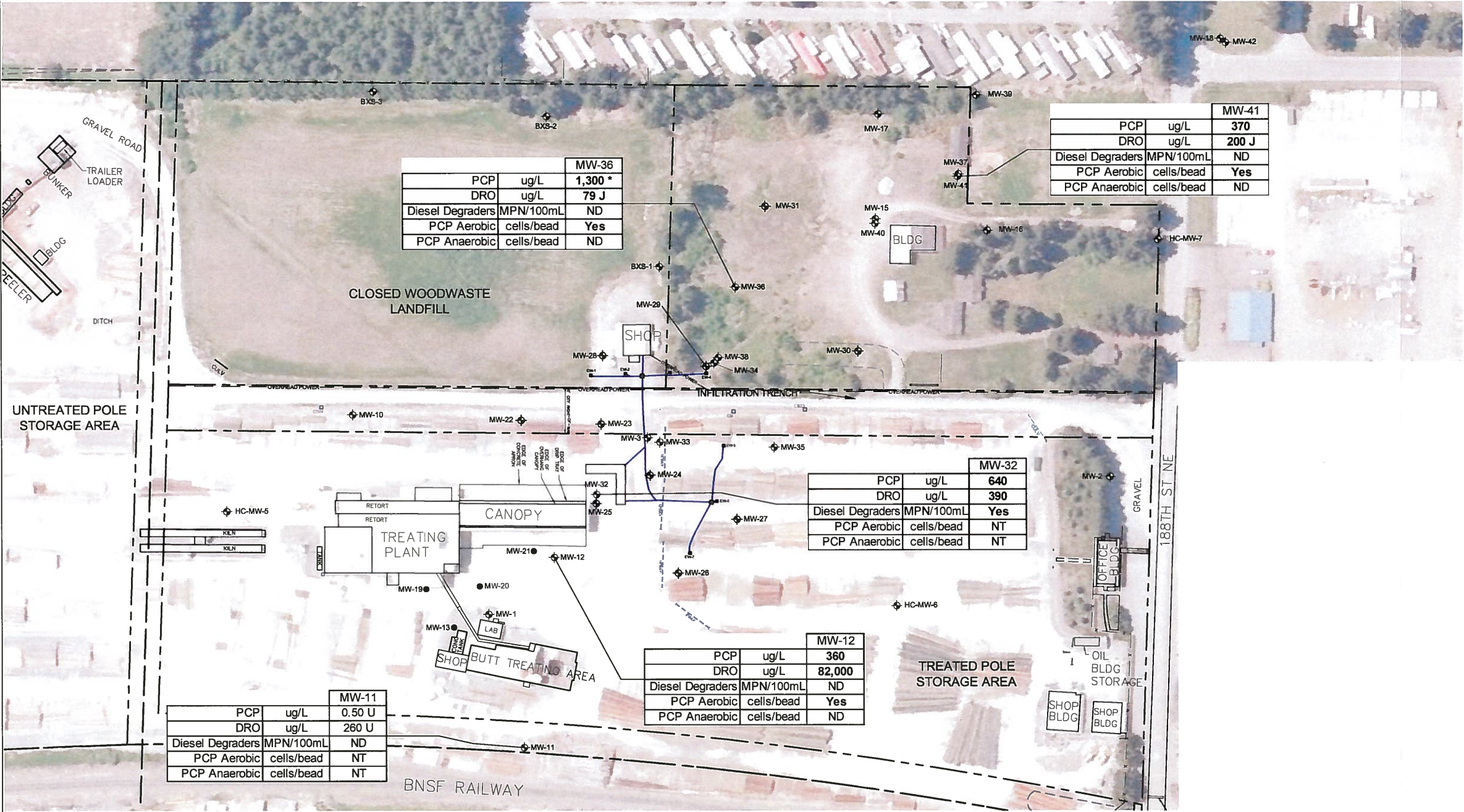
MAP NOTES:

Data Sources: Geomatrix, Appendix C, Stand-Alone Data Document (2014), December 2014



APPENDIX I-6

Summary of Groundwater PCP, DRO and
Biological Monitoring Results
September/December 2013
Former J.H. Baxter Wood Treating Facility
Arlington, Washington



LEGEND

- MW-11 Monitoring Well (Sampled September 2013 for PCP, DRO and Hydrocarbon Degrading Bacteria) (Sampled December 2013 for PCP Degradation Genetic Markers)
- Extraction Well
- Recovery Well
- Approximate Site Boundary
- Layout of Groundwater Recirculation Piping

ABBREVIATIONS:

- ND: Not Detected
- NT: Not Tested
- PCP: Pentachlorophenol
- DRO: Diesel Range Organics
- Diesel Degradability: Hydrocarbon Degrading Bacteria
- PCP Aerobic: PCP Resulator Gene
- PCP Anaerobic: Desulfotobacterium SPP
- MPN/g: Most Probable Number of Cells per Gram
- cells/g: Cells per Gram



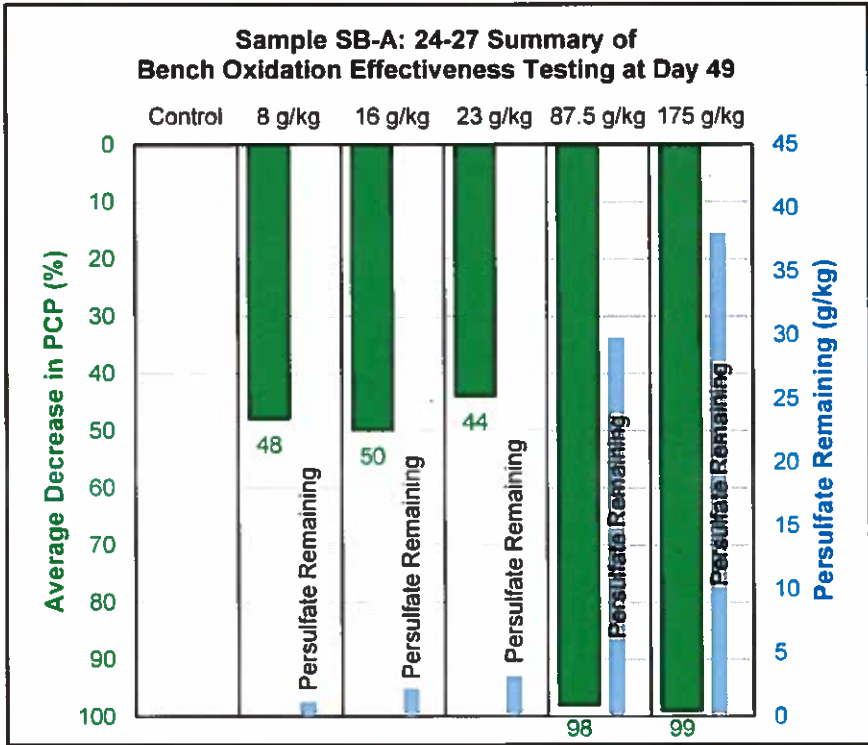
MAP NOTES:
Data Sources: Geomatrix, Appendix C, Stand-Alone Data Document (2014), December 2014



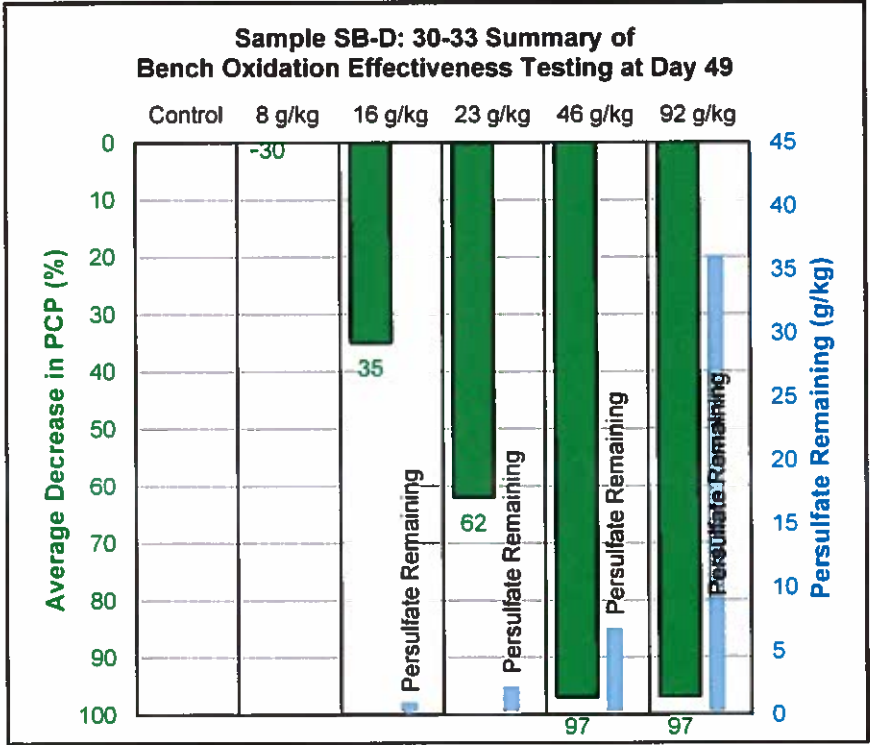
APPENDIX I-7

Pentachlorophenol Oxidized
vs Persulfate Used at Day 49
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

Sample SB-A: 24-27		
Persulfate Dose	Average % Decrease in PCP	Persulfate Remaining (g/kg)
Control	0	0
8 g/kg	48	1.2
16 g/kg	50	2.2
23 g/kg	44	3.2
87.5 g/kg	98	29.9
175 g/kg	99	38.1



Sample SB-D: 30-33		
Persulfate Dose	Average % Decrease in PCP	Persulfate Remaining (g/kg)
Control	0	0
8 g/kg	-30	0
16 g/kg	35	1
23 g/kg	62	2.2
46 g/kg	97	6.8
92 g/kg	97	36.1



NOTES:
% = percent.
g/Kg = gram per kilogram.
PCP = pentachlorophenol

MAP NOTES:
Data Sources: Geomatrix, Appendix C. Stand-Alone Data Document (2014), December 2014



Appendix J

Source Area Investigation and Chemical Oxidation Bench Study Boring Logs

PROJECT: Former J.H. Baxter Arlington, Washington		Log of Boring No. SB-A	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 9/20/13	DATE FINISHED: 9/20/13
DRILLING METHOD: Sonic drilling		TOTAL DEPTH (ft.): 45.0	MEASURING POINT:
DRILLING EQUIPMENT: Prosonic, Spider Track Mounted Limited Access Rig		DEPTH TO WATER (ft.)	FIRST - 30 ft
SAMPLING METHOD: 5-foot-continuous-core system [5' x 4" OD]		LOGGED BY: Nathan Moxley	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: Steve Barnett, LG	REG. NO. 1051

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
1					Surface Elevation:	Bagged Samples Sheen Testing Results:
2				0.5	AGGREGATE BASE (GP): Light grayish brown, moist, gravel with sand and silt (roadbase FILL) (no odor)	
3						no sheen
4						
5				0.4		no sheen
6						
7				5.2	WOOD DEBRIS: Dark brown to black, moist, 95% WOOD DEBRIS, 5% fine sand (faint odor)	no sheen
8						
9				2.1	rock fragment	no sheen
10	SB-A: 10 - 11					
11						
12				0.0		no sheen
13						
14				0.1		no sheen
15					POORLY-GRADED GRAVEL (GP): Gray, rounded cobble fragments	
16				10.1	POORLY-GRADED SAND with GRAVEL (SP): Gray, moist, 80% medium to coarse SAND with 15% rounded gravel, and 5% fine sand (odor)	abundant sheen with product droplets
17	SB-A: 16 - 19					
18				15.6		slight sheen
19					POORLY-GRADED SAND (SP): Light brown, moist, 85% fine to medium SAND with 10% coarse sand and 5% gravel (slight odor)	
20						

PROJECT: Former J.H. Baxter
Arlington, Washington

Log of Boring No. SB-A (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
21	SB-A: 24 - 27			5.6	WOOD DEBRIS: Dark brown to black, moist, 95% WOOD DEBRIS, 5% fine sand (faint odor)	abundant sheen with product droplets
22				1.8	Gray, silty, fine SAND lense POORLY-GRADED SAND with GRAVEL (SP): Gray, moist, 75% medium to coarse SAND with 15% rounded gravel, 5% fine sand, and 5% wood debris (odor and staining)	no sheen
23						
24				15.8	POORLY-GRADED SAND (SP): Grayish brown, moist, 90% fine to medium SAND with 5% coarse sand and 5% gravel (odor and staining)	abundant sheen with product droplets
25						
26	SB-A: 30 - 33			16.0		abundant sheen with product droplets
27						
28						
29				19.0	POORLY-GRADED SAND with SILT (SP-SM): Light brown, moist, 85% fine SAND with 10% silt and 5% gravel (odor and staining)	abundant sheen with product droplets
30						
31	SB-A: 40 - 41			22.8	becomes wet	free product visible
32						
33				16.1	residual free product visible in core bag at 33 ft	free product visible
34						
35						slight sheen
36				0.1		no sheen
37						
38						
39				0.5		
40						no sheen
41				0.3		
42						no sheen
43						
44						

OAKBOREV (REV. 8/2011)

PROJECT: Former J.H. Baxter
Arlington, Washington

Log of Boring No. SB-A (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
45				0.0	Boring terminated at 45 feet and backfilled with bentonite chips	no sheen
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						

OAKBORE (REV. 8/2011)

PROJECT: Former J.H. Baxter Arlington, Washington				Log of Boring No. SB-B			
BORING LOCATION:				ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Cascade Drilling, Inc.				DATE STARTED: 9/20/13		DATE FINISHED: 9/20/13	
DRILLING METHOD: Sonic drilling				TOTAL DEPTH (ft.): 40.0		MEASURING POINT:	
DRILLING EQUIPMENT: Prosonic, Spider Track Mounted Limited Access Rig				DEPTH TO WATER (ft.):		FIRST ~ 30 ft	COMPL.
SAMPLING METHOD: 5-foot-continuous-core system [5' x 4" OD]				LOGGED BY: Nathan Moxley			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: Steve Barnett, LG		REG. NO. 1051	

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
1					AGGREGATE BASE (GP): Light grayish brown, moist, gravel with sand and silt (roadbase FILL) (no odor)	Bagged Samples Sheen Testing Results:
2				2.1		no sheen
3						
4				1.6	WOOD DEBRIS: Dark brown to black, moist, 95% WOOD DEBRIS, 5% fine sand (faint odor)	
5					POORLY-GRADED SAND (SP): Light grayish brown, moist, 90% fine to medium SAND with 5% silt and 5% gravel (no odor)	no sheen
6				3.3	POORLY-GRADED SAND (SP): Light grayish brown with reddish gray and gray staining, moist, 60% medium to coarse SAND with 30% fine sand and 10% gravel (slight odor)	slight sheen
7						
8						
9				1.4		no sheen
10					POORLY-GRADED SAND with GRAVEL (SP): Light grayish brown with dark gray staining, moist, 65% medium to coarse SAND with 25% gravel and 10% fine sand (no odor)	
11				6.8		no sheen
12						
13						
14				2.0		no sheen
15						
16				1.1	contains rounded cobbles	no sheen
17						
18						
19				0.6		no sheen
20						

OAKBOREV (REV. 8/2011)

Project No. 361M125611.0001.3

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PROJECT: Former J.H. Baxter
Arlington, Washington


Log of Boring No. SB-B (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
21				2.4	POORLY-GRADED SAND (SP): Light brown with gray staining, moist, 80% fine to medium SAND, with 10% coarse sand and 10% gravel (slight odor)	no sheen
22						
23						
24				1.2		
25						
26				3.0	no staining visible general grain size decreases to 95% fine to medium SAND with 5% gravel	slight sheen
27						
28						
29				2.6		
30						
31				15.9	free product visible inside core bag	abundant sheen with product droplets
32						
33				15.4	POORLY-GRADED SAND with SILT (SP-SM): Light brown, wet, 85% fine SAND with 15% silt (odor)	free product visible
34						
35						
36				5.5		
37						
38						slight sheen
39				2.8		
40						
41						
42						
43					Boring terminated at 40 feet and backfilled with bentonite chips.	no sheen
44						

OAKBORE (REV. 8/2011)

PROJECT: Former J.H. Baxter Arlington, Washington					Log of Boring No. SB-C			
BORING LOCATION:					ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 9/20/13		DATE FINISHED: 9/20/13	
DRILLING METHOD: Sonic drilling					TOTAL DEPTH (ft.): 40.0		MEASURING POINT:	
DRILLING EQUIPMENT: Prosonic, Spider Track Mounted Limited Access Rig					DEPTH TO WATER (ft.)		FIRST - 30 ft	COMPL.
SAMPLING METHOD: 5-foot-continuous-core system [5" x 4" OD]					LOGGED BY: Nathan Moxley			
HAMMER WEIGHT: NA			DROP: NA		RESPONSIBLE PROFESSIONAL: Steve Barnett, LG		REG. NO. 1051	

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
1					AGGREGATE BASE (GP): Light grayish brown, moist, gravel with sand and silt (roadbase FILL) (no odor)	Bagged Samples Sheen Testing Results:
2				1.3		no sheen
3						
4				5.1	POORLY-GRADED SAND with SILT (SP-SM): Brown, moist, 75% fine to medium SAND with 15% silt and 10% gravel (slight odor)	no sheen
5						
6				5.8	POORLY-GRADED SAND (SP): Light grayish brown, moist, 85% fine to medium SAND with 10% gravel and 5% coarse sand (no odor)	slight sheen
7						
8				3.5		no sheen
9						
10					coarse sand content increases	
11						
12				1.0		no sheen
13						
14				1.7		no sheen
15						
16				1.9	POORLY-GRADED SAND (SP): Light brown, moist, 80% medium to coarse SAND, with 10% fine sand and 10% gravel (no odor)	no sheen
17						
18						
19				1.6		no sheen
20						

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PROJECT: Former J.H. Baxter
Arlington, Washington

Log of Boring No. SB-C (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
21	SB-C: 20 - 21			2.3		no sheen
22					grain size decreases to a fine to medium SAND	
23						
24				1.4		no sheen
25					grain size increases to a medium to coarse SAND	
26				3.5	gravel lense	no sheen
27						
28				6.2	gravelly, medium to coarse SAND lense	
29					POORLY-GRADED SAND with SILT (SP-SM): Light brown, moist, 90% fine SAND, with 10% silt (no odor)	sheen with trace product droplets
30				4.0	becomes wet	no sheen
31	SB-C: 30 - 33				lense containing 10% coarse sand and 10% gravel	
32				5.9		no sheen
33						
34				3.7		no sheen
35						
36				2.3		no sheen
37						
38						
39				1.4		no sheen
40						
41					Boring terminated at 40 feet and backfilled with bentonite chips.	
42						
43						
44						

OAKBORE (REV. 8/2011)

PROJECT: Former J.H. Baxter Arlington, Washington				Log of Boring No. SB-D			
BORING LOCATION:				ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Cascade Drilling, Inc.				DATE STARTED: 9/20/13		DATE FINISHED: 9/20/13	
DRILLING METHOD: Sonic drilling				TOTAL DEPTH (ft.): 40.0		MEASURING POINT:	
DRILLING EQUIPMENT: Prosonic, Spider Track Mounted Limited Access Rig				DEPTH TO WATER (ft.)		FIRST - 30 ft	COMPL.
SAMPLING METHOD: 5-foot-continuous-core system [5' x 4" OD]				LOGGED BY: Nathan Moxley			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: Steve Barnett, LG		REG. NO. 1051	

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot	Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
1					AGGREGATE BASE (GP): Light grayish brown, moist, gravel with sand and silt (roadbase FILL) (no odor)	Bagged Samples Sheen Testing Results:
2				2.4	POORLY-GRADED SAND (SP): Light grayish brown, moist, 90% fine to medium SAND with 5% coarse sand and 5% gravel (no odor)	no sheen
3					dark brown color	
4				1.5		no sheen
5						
6				1.5		no sheen
7						
8				2.1		no sheen
9						
10					POORLY-GRADED SAND with GRAVEL (SP): Light grayish brown, moist, 60% medium to coarse SAND with 30% gravel and 10% fine sand (no odor)	
11				2.8	POORLY-GRADED SAND (SP): Light grayish brown, moist, 90% fine to medium SAND with 10% gravel (no odor)	no sheen
12						
13						
14				1.8		no sheen
15						
16				3.1	POORLY-GRADED SAND with GRAVEL (SP): Light grayish brown, moist, 60% medium to coarse SAND with 30% gravel and 10% fine sand (no odor)	no sheen
17						
18				3		no sheen
19						
20						

OAKBOREY (REV. 8/2011)

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PROJECT: Former J.H. Baxter
Arlington, Washington

Log of Boring No. SB-D (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
21				2.8	POORLY-GRADED SAND (SP): Light grayish brown, moist, 90% fine to medium SAND with 10% gravel (no odor)	no sheen
22						
23						
24				3.3	POORLY-GRADED SAND with GRAVEL (SP): Light grayish brown, moist, 60% medium to coarse SAND with 30% gravel and 10% fine sand (odor and staining)	no sheen
25						
26				3.4		no sheen
27					POORLY-GRADED SAND with SILT (SP-SM): Light brown, moist to wet, 90% fine to medium SAND with 10% silt (strong odor) visible product in soil core from 30 - 34 ft	slight sheen
28				21.4		
29						
30				17.7	odor decreases below 34 ft	sheen and product droplets
31						
32				17.1		heavy sheen and free product
33					Boring terminated at 40 feet and backfilled with bentonite chips.	
34						
35				4.6		slight sheen
36				2.7		no sheen
37						
38				3.0		
39						
40				1.7		no sheen
41						
42						
43						
44						

OAKBORE (REV. 8/2011)

PROJECT: Former J.H. Baxter Arlington, Washington		Log of Boring No. SB-A	
BORING LOCATION:		ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 9/20/13	DATE FINISHED: 9/20/13
DRILLING METHOD: Sonic drilling		TOTAL DEPTH (ft.): 45.0	MEASURING POINT:
DRILLING EQUIPMENT: Prosonic, Spider Track Mounted Limited Access Rig		DEPTH TO WATER (ft.)	FIRST - 30 ft
SAMPLING METHOD: 5-foot-continuous-core system [5' x 4" OD]		LOGGED BY: Nathan Moxley	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: Steve Barnett, LG	REG. NO. 1051

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
1					AGGREGATE BASE (GP): Light grayish brown, moist, gravel with sand and silt (roadbase FILL) (no odor)	Bagged Samples Sheen Testing Results:
2				0.5		no sheen
3						
4						
5				0.4		no sheen
6						
7				5.2	WOOD DEBRIS: Dark brown to black, moist, 95% WOOD DEBRIS, 5% fine sand (faint odor)	no sheen
8						
9				2.1	rock fragment	no sheen
10	SB-A: 10 - 11					
11						
12				0.0		no sheen
13						
14				0.1		no sheen
15					POORLY-GRADED GRAVEL (GP): Gray, rounded cobble fragments	
16				10.1	POORLY-GRADED SAND with GRAVEL (SP): Gray, moist, 80% medium to coarse SAND with 15% rounded gravel, and 5% fine sand (odor)	abundant sheen with product droplets
17	SB-A: 16 - 19					
18				15.6		slight sheen
19					POORLY-GRADED SAND (SP): Light brown, moist, 85% fine to medium SAND with 10% coarse sand and 5% gravel (slight odor)	
20						

OAKBORE (REV. 8/2011)

PROJECT: Former J.H. Baxter
Arlington, Washington

Log of Boring No. SB-A (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
21	SB-A: 24 - 27			5.6	WOOD DEBRIS: Dark brown to black, moist, 95% WOOD DEBRIS, 5% fine sand (faint odor)	abundant sheen with product droplets
22				1.8	Gray, silty, fine SAND lense POORLY-GRADED SAND with GRAVEL (SP): Gray, moist, 75% medium to coarse SAND with 15% rounded gravel, 5% fine sand, and 5% wood debris (odor and staining)	no sheen
23						
24				15.8	POORLY-GRADED SAND (SP): Grayish brown, moist, 90% fine to medium SAND with 5% coarse sand and 5% gravel (odor and staining)	abundant sheen with product droplets
25						
26	SB-A: 30 - 33			16.0		abundant sheen with product droplets
27						
28						
29				19.0	POORLY-GRADED SAND with SILT (SP-SM): Light brown, moist, 85% fine SAND with 10% silt and 5% gravel (odor and staining)	abundant sheen with product droplets
30					becomes wet	
31	SB-A: 40 - 41			22.8		free product visible
32						
33				16.1	residual free product visible in core bag at 33 ft	free product visible
34						
35						slight sheen
36				0.1		no sheen
37						
38						
39				0.5		
40						no sheen
41				0.3		
42						no sheen
43						
44						

OAKBOREX (REV. 11/2011)

PROJECT: Former J.H. Baxter
Arlington, Washington

Log of Boring No. SB-A (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS); color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
45				0.0	Boring terminated at 45 feet and backfilled with bentonite chips	no sheen
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						

OAKBORE (REV. 8/2011)

PROJECT: Former J.H. Baxter Arlington, Washington					Log of Boring No. SB-B				
BORING LOCATION:					ELEVATION AND DATUM:				
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 9/20/13		DATE FINISHED: 9/20/13		
DRILLING METHOD: Sonic drilling					TOTAL DEPTH (ft.): 40.0		MEASURING POINT:		
DRILLING EQUIPMENT: Prosonic, Spider Track Mounted Limited Access Rig					DEPTH TO WATER (ft.)		FIRST ~ 30 ft		COMPL.
SAMPLING METHOD: 5-foot-continuous-core system [5' x 4" OD]					LOGGED BY: Nathan Moxley				
HAMMER WEIGHT: NA			DROP: NA		RESPONSIBLE PROFESSIONAL: Steve Barnett, LG			REG. NO. 1051	

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
1					AGGREGATE BASE (GP): Light grayish brown, moist, gravel with sand and silt (roadbase FILL) (no odor)	Bagged Samples Sheen Testing Results:
2				2.1		no sheen
3						
4				1.6	WOOD DEBRIS: Dark brown to black, moist, 95% WOOD DEBRIS, 5% fine sand (faint odor)	
5					POORLY-GRADED SAND (SP): Light grayish brown, moist, 90% fine to medium SAND with 5% silt and 5% gravel (no odor)	no sheen
6				3.3	POORLY-GRADED SAND (SP): Light grayish brown with reddish gray and gray staining, moist, 60% medium to coarse SAND with 30% fine sand and 10% gravel (slight odor)	slight sheen
7						
8						
9				1.4		no sheen
10					POORLY-GRADED SAND with GRAVEL (SP): Light grayish brown with dark gray staining, moist, 65% medium to coarse SAND with 25% gravel and 10% fine sand (no odor)	
11				6.8		no sheen
12						
13						
14				2.0		no sheen
15						
16				1.1	contains rounded cobbles	no sheen
17						
18						
19				0.6		no sheen
20						

OAKBORE (REV. 8/2011)

Project No. 361M125611.0001.3

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PROJECT: Former J.H. Baxter
Arlington, Washington

Log of Boring No. SB-B (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
21				2.4	POORLY-GRADED SAND (SP): Light brown with gray staining, moist, 80% fine to medium SAND, with 10% coarse sand and 10% gravel (slight odor)	
22						no sheen
23						
24				1.2		no sheen
25						
26				3.0	no staining visible	slight sheen
27						
28						
29				2.6	general grain size decreases to 95% fine to medium SAND with 5% gravel	no sheen
30						
31				15.9	free product visible inside core bag	abundant sheen with product droplets
32						
33				15.4	POORLY-GRADED SAND with SILT (SP-SM): Light brown, wet, 85% fine SAND with 15% silt (odor)	free product visible
34						
35						
36				5.5		slight sheen
37						
38						
39				2.8		no sheen
40						
41					Boring terminated at 40 feet and backfilled with bentonite chips.	
42						
43						
44						

DAKBOREV (REV. 8/2011)

PROJECT: Former J.H. Baxter Arlington, Washington					Log of Boring No. SB-C		
BORING LOCATION:					ELEVATION AND DATUM:		
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 9/20/13		DATE FINISHED: 9/20/13
DRILLING METHOD: Sonic drilling					TOTAL DEPTH (ft.): 40.0		MEASURING POINT:
DRILLING EQUIPMENT: Prosonic, Spider Track Mounted Limited Access Rig					DEPTH TO WATER (ft.)		FIRST ~ 30 ft
SAMPLING METHOD: 5-foot-continuous-core system [5" x 4" OD]					LOGGED BY: Nathan Moxley		
HAMMER WEIGHT: NA			DROP: NA		RESPONSIBLE PROFESSIONAL: Steve Barnett, LG		REG. NO. 1051

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
1					AGGREGATE BASE (GP): Light grayish brown, moist, gravel with sand and silt (roadbase FILL) (no odor)	Bagged Samples Sheen Testing Results: no sheen
2				1.3		
3						
4				5.1	POORLY-GRADED SAND with SILT (SP-SM): Brown, moist, 75% fine to medium SAND with 15% silt and 10% gravel (slight odor)	no sheen
5						
6				5.8	POORLY-GRADED SAND (SP): Light grayish brown, moist, 85% fine to medium SAND with 10% gravel and 5% coarse sand (no odor)	slight sheen
7						
8				3.5		
9						no sheen
10					coarse sand content increases	
11						
12				1.0		no sheen
13						
14				1.7		no sheen
15						
16				1.9	POORLY-GRADED SAND (SP): Light brown, moist, 80% medium to coarse SAND, with 10% fine sand and 10% gravel (no odor)	no sheen
17						
18						
19				1.6		no sheen
20						

PROJECT: Former J.H. Baxter
Arlington, Washington

Log of Boring No. SB-C (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
21	SB-C: 20 - 21			2.3		no sheen
22					grain size decreases to a fine to medium SAND	
23						
24				1.4		no sheen
25	SB-C: 30 - 33				grain size increases to a medium to coarse SAND	
26				3.5	gravel lense	no sheen
27						
28				6.2	gravelly, medium to coarse SAND lense	
29					POORLY-GRADED SAND with SILT (SP-SM): Light brown, moist, 90% fine SAND, with 10% silt (no odor)	sheen with trace product droplets
30				4.0	becomes wet	no sheen
31					lense containing 10% coarse sand and 10% gravel	
32				5.9		no sheen
33						
34				3.7		no sheen
35						
36				2.3		no sheen
37						
38						
39				1.4		no sheen
40						
41					Boring terminated at 40 feet and backfilled with bentonite chips.	
42						
43						
44						

OAKBORE (REV. 1/2011)

PROJECT: Former J.H. Baxter Arlington, Washington					Log of Boring No. SB-D			
BORING LOCATION:					ELEVATION AND DATUM:			
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 9/20/13		DATE FINISHED: 9/20/13	
DRILLING METHOD: Sonic drilling					TOTAL DEPTH (ft.): 40.0		MEASURING POINT:	
DRILLING EQUIPMENT: Prosonic, Spider Track Mounted Limited Access Rig					DEPTH TO WATER (ft.)		FIRST ~ 30 ft	COMPL.
SAMPLING METHOD: 5-foot-continuous-core system [5' x 4" OD]					LOGGED BY: Nathan Moxley			
HAMMER WEIGHT: NA			DROP: NA		RESPONSIBLE PROFESSIONAL: Steve Barnett, LG			REG. NO. 1051

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation:	
1					AGGREGATE BASE (GP): Light grayish brown, moist, gravel with sand and silt (roadbase FILL) (no odor)	Bagged Samples Sheen Testing Results:
2				2.4	POORLY-GRADED SAND (SP): Light grayish brown, moist, 90% fine to medium SAND with 5% coarse sand and 5% gravel (no odor)	no sheen
3					dark brown color	
4				1.5		no sheen
5						
6				1.5		no sheen
7						
8				2.1		no sheen
9						
10					POORLY-GRADED SAND with GRAVEL (SP): Light grayish brown, moist, 60% medium to coarse SAND with 30% gravel and 10% fine sand (no odor)	
11				2.8	POORLY-GRADED SAND (SP): Light grayish brown, moist, 90% fine to medium SAND with 10% gravel (no odor)	no sheen
12						
13						
14				1.8		no sheen
15						
16				3.1	POORLY-GRADED SAND with GRAVEL (SP): Light grayish brown, moist, 60% medium to coarse SAND with 30% gravel and 10% fine sand (no odor)	no sheen
17						
18				3		no sheen
19						
20						

OAKBOREY (REV. 6/2011)

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PROJECT: Former J.H. Baxter
Arlington, Washington

Log of Boring No. SB-D (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
21				2.8	POORLY-GRADED SAND (SP): Light grayish brown, moist, 90% fine to medium SAND with 10% gravel (no odor)	no sheen
22						
23						
24				3.3		no sheen
25						
26				3.4		no sheen
27					POORLY-GRADED SAND with GRAVEL (SP): Light grayish brown, moist, 60% medium to coarse SAND with 30% gravel and 10% fine sand (odor and staining)	
28				21.4		slight sheen
29						
30				17.7	POORLY-GRADED SAND with SILT (SP-SM): Light brown, moist to wet, 90% fine to medium SAND with 10% silt (strong odor) visible product in soil core from 30 - 34 ft	sheen and product droplets
31						
32				17.1		heavy sheen and free product
33						
34					odor decreases below 34 ft	
35				4.6		slight sheen
36				2.7		no sheen
37						
38				3.0		
39						
40				1.7		no sheen
41					Boring terminated at 40 feet and backfilled with bentonite chips.	
42						
43						
44						

OAKBOREV (REV. 0/2011)